

211233



ecology and environment, inc.

International Specialists in the Environment

ANALYTICAL SERVICES CENTER

4493 Walden Avenue
Lancaster, New York 14086
Tel. (716) 685-8080, Fax: (716) 685-0852

January 18, 1999

Ms. Smita Sumbaly
Roy F. Weston - Edison
1090 King Georges Post Road
Suite 201
Edison, NJ 08837

RE: 9803.017 (Amended Form 1's)

Dear Ms. Sumbaly:

Attached are amended Form 1's for the laboratory report for on seven samples received at the Analytical Services Center on November 23, 1998. The samples were analyzed according to methods set forth in the "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, Update III, June 1997, USEPA.

However, the original report was sent to you on December 15, 1998. The PCB-soil results had not been corrected for moisture content. The attached results forms are now reported on a "dry weight" basis (converted for % moisture). Please replace these forms in the original report.

Very truly yours,

Tony Bogolin - Project Manager
Analytical Services Center

TB/cam
Enclosure

Precautionary Measures Against Hidden Hazards in Laboratory Samples

Notice to Laboratory Personnel

Background

Under the authority of Section 104 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) of 1980, Section 311 of the Clean Water Act, and Subtitle I of the Resource Conservation and Recovery Act (RCRA), EPA has been delegated the responsibility to undertake response actions with respect to the release or potential release of oil, petroleum, or hazardous substances that pose a substantial threat to human health or welfare, or the environment. In addition, EPA provides technical assistance to help mitigate endangerment of the public health, welfare or environment during other emergencies and natural disasters.

EPA's successful implementation of these emergency response action responsibilities requires that technical support capabilities be provided in the form of a contracted Superfund Technical Assessment and Response Team (START) for each EPA Region. The WESTON START Contract 68-W5-0019 provides support to EPA Region II.

Hazard Communication

The samples which accompany this notice have been shipped to your laboratory for analysis in accordance with applicable D.O.T. or IATA Regulations and were collected by the WESTON START and were tentatively designated by the field response team as either environmental or hazardous material samples.

In general, *Environmental Samples* are collected from streams, farm ponds, small lakes, wells, and off-site soils that are not reasonably expected to be contaminated with hazardous materials. Samples of on-site soils or water, and materials collected from drums, bulk storage tanks, obviously contaminated ponds, impoundments, lagoons, pools, and leachates from hazardous waste sites are considered *Hazardous Samples*. Samples which are obtained from a known radioactive material contamination site or which demonstrate beta or gamma activity greater than three times average background as scanned with a Geiger-Mueller radiation survey meter are considered *Radioactive Samples*.

The samples which accompany this notice have been tentatively classified by the field response team as:

Environmental Hazardous Comb. (Envir. & Haz.) Radioactive

The field team which collected the samples used the following Level(s) of personal protection as designated by EPA and OSHA conventions to provide protection against possible radiological or chemical exposure:

Level A Level B Level C Level D

This information is intended for use as a guide for the safe handling of these laboratory samples in accordance with EPA and OSHA regulations. The sample classification(s) and Levels of personal protection used by the WESTON START are not represented to be, nor are they adequate or applicable in all situations, nor are they intended to serve as substitutes for professional/personal judgement.

This form was prepared by: M. Mahkopf Date 1/14/98

Analytical Services TDD No. _____ Date / /

WESTON Office: Region II START, Edison, NJ Phone: 732-225-6116 FAX: 732-225-7037

Laboratory Name: Ecology & Environment, Inc

/Hazcom for Laboratory Personnel/ To be attached to each Chain-of-Custody Form

RFP No.:
4338
 PO No.:
98700

CHAIN OF CUSTODY RECORD



SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
 EPA CONTRACT 68-W5-0019
 Phone: 908-225-5116 Fax: 908-225-7037

Matrix Box No.:
 1. Surface Water
 2. Ground Water
 3. Leachate
 4. Rinse
 5. Soil/Sediment
 6. Oil
 7. Waste
 8. Other (Specify)

Preservative Box No.:
 1. HCl
 2. HNO3
 3. Na2SO4
 4. H2SO4
 5. Other (Specify)
 6. Ice Only
 N. Not Preserved
 * See Comments

DEC 1

Send verbal and written results to: **Roy F. Weston, Inc., USEPA Region II START**
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbary, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Mod-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #)	RAS ANALYSIS					RCSA ANALYSIS			OTHER	
						VOA	INA	PEST	PCB	ITAL	CN	IGN	COR		REAC
CCSD1-a	11/21/98 1000	5	L	G	6						X				
DDSS1-a	1005										X				
HMSD1-a	1025										X				
UUUSD1-a	1045										X			MS/MSD	
UUUSD3-a	1045										X				
PPPND2-a	1120										X				
RB-1	1100	4									X				

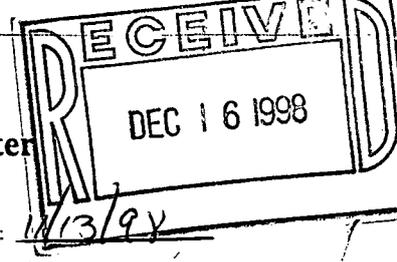
Comments:

Person Assuming Responsibility for Sample:
M. Mahoney Time: 1245 Date (MM/DD/YY): 11/21/98

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
ALL	<i>M. Mahoney</i>	1245	11/21/98	<i>Fed exp.</i>	<i>Shipping</i>

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
ALL	<i>Fed Ex</i>	9:55	11/21/98	<i>Kyle Mead</i>	<i>Received samples</i>

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody



Ecology and Environment, Inc. Analytical Services Center
Cooler Receipt Form

PACKAGE RECEIPT #: 2189 NUMBER OF COOLERS: 1 cooler DATE RECEIVED: 11/13/98
E & E PROJECT #: _____ PROJECT OR SITE NAME: Roy F. Weston - NJ

A. Preliminary Examination Phase

1. Did coolers come with airbill or packing slip? YES NO NA
Enter carrier here and print airbill # below: Fed ex
2. Did cooler(s) have custody seals? YES NO NA
If YES, how many and where? _____
3. Were custody seals unbroken and intact on receipt? YES NO* NA
4. Were custody seals dated and signed? YES NO NA
If YES, enter date: _____ Name: _____
5. Sign here to acknowledge receipt of cooler (s): Kyle Mead
Date cooler(s) opened: 11/23/98 C-O-C numbers: _____
Cooler(s) opened by (print): KYLE MEAD Signature: Kyle Mead
6. Were the C-O-C forms received? YES NO* NA
7. Was the project identifiable from the C-O-C form? YES NO* NA
If YES, enter the project number and name in the heading above.

Please record Temperature Blank or Cooler Temperature for Each Cooler. Range (2 - 5°C)*

AIRBILL #	TEMP. °C	AIRBILL #	TEMP. °C	AIRBILL #	TEMP. °C
<u>4811726835</u>	<u>4.5</u>				

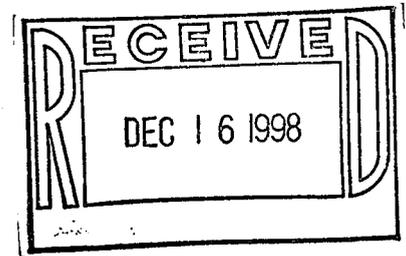
Thermometer # 116 Correction Factor 0 * If No or Temperature Outside of Acceptable Range, a CAF must be filed. CAF # _____

B. Unpacking Phase

8. Was enough packing material used in cooler(s)? YES NO NA
Type of material: Vermiculite Bubble Wrap Other
9. If required, was enough ice used? YES NO NA
If YES, type of ice used: Wet Dry Blue Other
10. Was a temperature blank included inside cooler(s)? YES NO NA
If YES, indicate temperature blank temperature in table above. If NO, indicate cooler temperature in table above.
11. Were all containers sealed in separate plastic bags? YES NO NA
12. Did all containers arrive unbroken and in good condition? YES NO* NA

C. Login Phase

- Samples Logged in By (print): KYLE MEAD Signature: Kyle Mead Date: 11/23/98
13. Were all container labels complete (e.g. date, time preserv)? YES NO* NA
14. Were all C-O-C forms filled out properly in ink and signed? YES NO* NA
15. Did the C-O-C form agree with containers received? YES NO* NA
16. Were the correct containers used for the tests requested? YES NO* NA
17. Were the correct preservatives listed on the sample labels? YES NO* NA
18. Was a sufficient sample volume sent for the tests requested? YES NO* NA
19. Were all volatile samples received without head space? YES NO* NA



Narrative

PCBs

The column used for this analysis was a RTX-5, 30 m.

No PCB's were found in the water sample. Nothing unusual to report about the water sample analysis.

The reporting limits were raised according to the percent solids present in the samples.

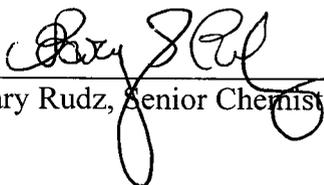
Aroclor 1254 was found in the soil samples.

The soil samples were analyzed at secondary dilutions and quantitation limits raised accordingly. In samples CCSD1-A, DDSS1-A, HHSD1-A and PPPND2-A the surrogate recoveries were diluted out.

The UUUSD1-A MS/MSD was analyzed at a secondary dilution. The sample contained Aroclor 1254 which co-eluted with the Aroclor 1260 spike recoveries causing them to be elevated outside the QC Limits.

The laboratory control samples (LCS) spike recoveries, remaining surrogates and method blank met QC criteria.

Initial and continuing calibration standards met method criteria. Initial calibration data for both waters and soils is in the water section of this report.



Gary Rudz, Senior Chemist

JOB NUMBER : 9803.017

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID		DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
8082 PCB		-S			
19591.01	CCSD1-A		11/21/98	11/24/98	12/03/98
19592.01	DDSS1-A		11/21/98	11/24/98	12/03/98
19593.01	HBSD1-A		11/21/98	11/24/98	12/03/98
19594.01	UUUSD1-A] duplicates	11/21/98	11/24/98	12/02/98
19595.01	UUUSD3-A		11/21/98	11/24/98	12/02/98
19596.01	PPPND2-A		11/21/98	11/24/98	12/03/98
8082 PCB		-W			
19597.01	RB-1		11/21/98	11/25/98	11/25/98



PCB
QUALITY CONTROL FOR ACCURACY
PERCENT RECOVERY OF SURROGATE SPIKES
WATER MATRIX

UG/L

E & E Job No:

9803.017

Sample Identification	<u>Tetrachloro -m-xylene</u>			Q	<u>Decachlorobiphenyl</u>		
	Amount Added	Amount Determined	Percent Recovery		Amount Added	Amount Determined	Percent Recovery
1352-040-1	0.200	0.143	71.4%		0.200	0.172	86.0%
1352-040-2	0.200	0.156	78.2%		0.200	0.165	82.5%
1352-040-3	0.200	0.146	73.0%		0.200	0.151	75.7%
19597	0.200	0.167	83.5%		0.200	0.125	62.3%

Q - Column used to flag recovery

* - Value is outside E & E, INC. QC limits.

D - Value is Diluted Out

LCS/LCSD = LABORATORY CONTROL SAMPLE/DUP
MS/MSD = MATRIX SPIKE/MATRIX SPIKE DUPLICATE

QC LIMITS

Tetrachloro-m-xylene 33-120
Decachlorobiphenyl 40-145

12/4/98



3
WATER PCB LCS RECOVERY
SW8082

Lab Name: E & E INC.

Job No.: 9803.017

Prep Batch No.: 981125398P

Instrument HP58901A

Sample No.: WLCS1352-040-2

Run Date 11/30/98

COMPOUND	SPIKE ADDED (ug/L)	LCS CONC. (ug/L)	LCS % REC	QC LIMITS REC.
Aroclor 1016	5.00	4.03	80.7	50 - 150
Aroclor 1260	5.00	4.24	84.8	50 - 150

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

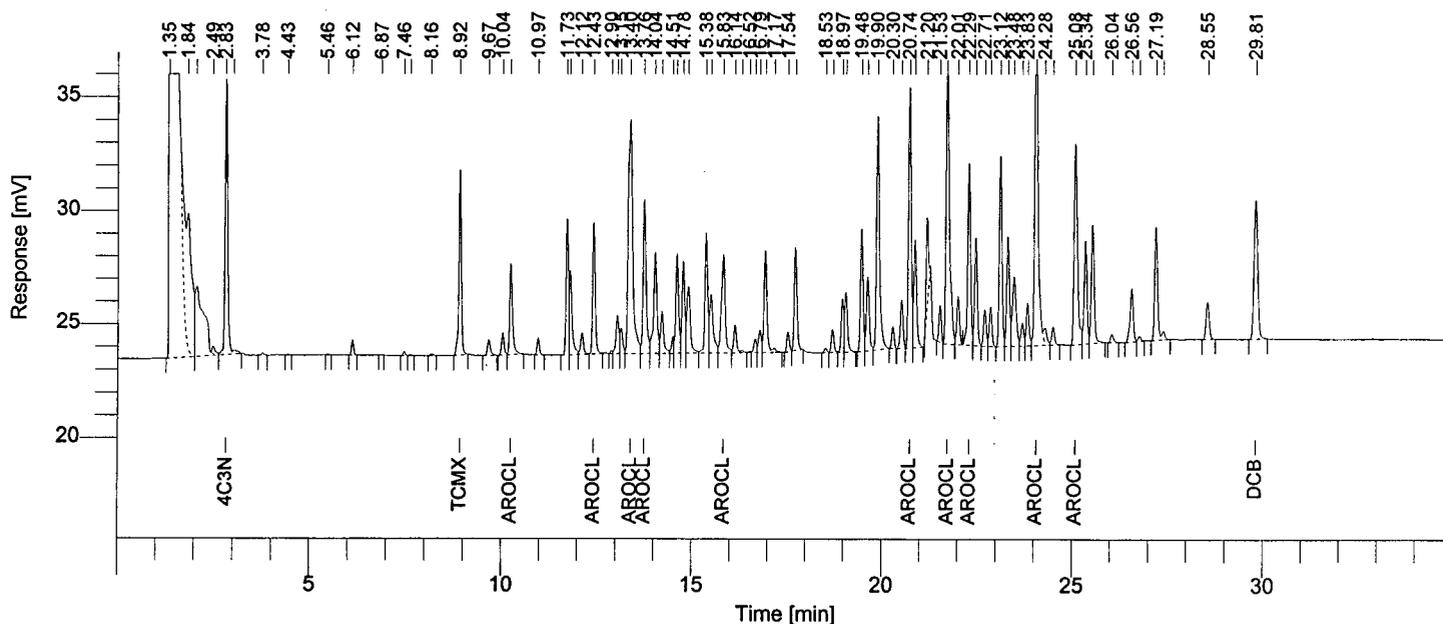
COMMENTS:

QC Limits Generated from
E&E QA Chart Program 9/14/98

12/4/98

Software Version	: 6.1-0.2:G07	Date	: 11/30/98 10:20:05 PM
Operator	: SCHMITZR	Sample Name	: 1352-040-2
Sample Number	: 006	Study	: 9803.017/.030
AutoSampler	: HP7673A	Rack/Vial	: 1/6
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.99 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 6
Data Acquisition Time	: 11/30/98 05:19:14 PM		

Raw Data File : \\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_006.raw
 Result File : \\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_006.rst
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 Proc Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
 Calib Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
 Sequence File : \\gcsrv1\TCData\Hp58901\NOV\11-30\HP1_1130R.seq



GC Water PCB Report

HP5890 1A RTX-5 30m 0.53mm 2ul Inj method 8081

Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Sample Conc. ug/L	Amt. Ext.(L)	Dilution Factor	Final Vol. (ml)
2.83	4C3N	56226	0.0286	0.2862	1.0000	1.0000	10.0000
8.92	TCMX	35387	0.0156	0.1564	1.0000	1.0000	10.0000
13.40	AR1016	199498	0.4034	4.0337	1.0000	1.0000	10.0000
24.05	AR1260	325049	0.4238	4.2385	1.0000	1.0000	10.0000
29.81	DCB	41598	0.0165	0.1650	1.0000	1.0000	10.0000

11/30/98 10:20:05 PM Result:

\\gcsrv1\TCDData\hp58901\nov\11-30\hp1a_981130370r_006.rst

Group Report For : AR1016

Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Sample Conc. ug/L	Amt. Ext.(L)	Dilution Factor	Final Vol. (ml)
10.25	Aroclor 1016-1	20563	0.3856	3.8555	1.0000	1.0000	10.0000
12.43	Aroclor 1016-2	26992	0.3908	3.9084	1.0000	1.0000	10.0000
13.40	Aroclor 1016-3	84668	0.4006	4.0062	1.0000	1.0000	10.0000
13.76	Aroclor 1016-4	37444	0.4043	4.0433	1.0000	1.0000	10.0000
15.83	Aroclor 1016-5	29832	0.4372	4.3721	1.0000	1.0000	10.0000

Group Report For : AR1260

Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Sample Conc. ug/L	Amt. Ext.(L)	Dilution Factor	Final Vol. (ml)
20.74	Aroclor 1260-1	57718	0.4056	4.0559	1.0000	1.0000	10.0000
21.73	Aroclor 1260-2	77554	0.4131	4.1307	1.0000	1.0000	10.0000
22.29	Aroclor 1260-3	41147	0.4053	4.0527	1.0000	1.0000	10.0000
24.05	Aroclor 1260-4	94939	0.4476	4.4757	1.0000	1.0000	10.0000
25.08	Aroclor 1260-5	53691	0.4358	4.3583	1.0000	1.0000	10.0000



3
WATER PCB LCS RECOVERY
SW8082

Lab Name: E & E INC.

Job No.: 9803.017

Prep Batch No.: 981125398P

Instrument HP58901A

Sample No.: WLCS1352-040-3

Run Date 11/30/98

COMPOUND	SPIKE ADDED (ug/L)	LCS CONC. (ug/L)	LCS % REC	QC LIMITS REC.
Aroclor 1016	5.00	3.93	78.7	50 - 150
Aroclor 1260	5.00	4.10	81.9	50 - 150

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

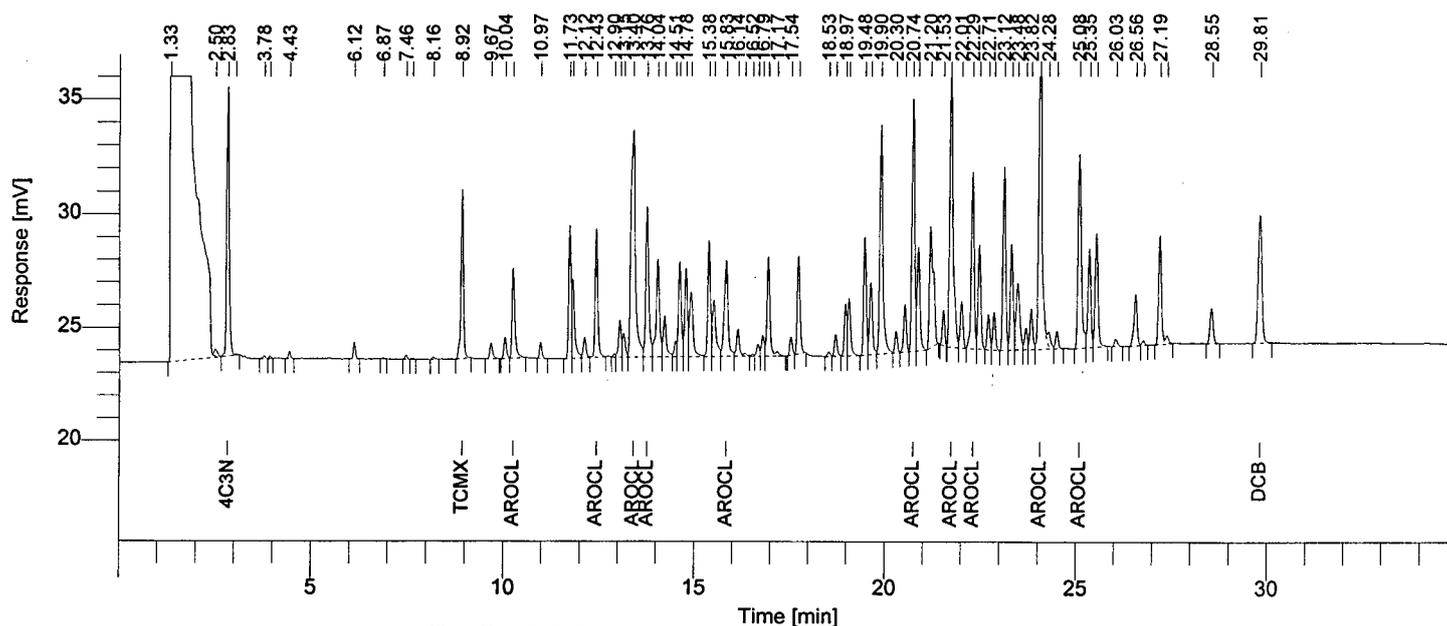
COMMENTS:

QC Limits Generated from
E&E QA Chart Program 9/14/98

12/4/98

Software Version	: 6.1.0.2:G07	Date	: 11/30/98 10:20:09 PM
Operator	: SCHMITZR	Sample Name	: 1352-040-3
Sample Number	: 007	Study	: 9803.017/.030
AutoSampler	: HP7673A	Rack/Vial	: 1/7
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.99 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 7
Data Acquisition Time	: 11/30/98 06:00:16 PM		

Raw Data File : \\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_007.raw
 Result File : \\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_007.rst
 Inst Method : NoInstFile from \\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_007.rst
 Proc Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
 Calib Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
 Sequence File : \\gcsrv1\TCData\Hp58901\NOV\11-30\HP1_1130R.seq



GC Water PCB Report

HP5890 1A RTX-5 30m 0.53mm 2ul Inj method 8081

Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Sample Conc. ug/L	Amt. Ext.(L)	Dilution Factor	Final Vol. (ml)
2.83	4C3N	53110	0.0253	0.2530	1.0000	1.0000	10.0000
8.92	TCMX	33036	0.0146	0.1460	1.0000	1.0000	10.0000
13.40	AR1016	194574	0.3934	3.9342	1.0000	1.0000	10.0000
24.05	AR1260	314178	0.4097	4.0967	1.0000	1.0000	10.0000
29.81	DCB	38152	0.0151	0.1513	1.0000	1.0000	10.0000

11/30/98 10:20:09 PM Result:

\\gcsrv1\TCDData\hp58901\nov\11-30\hp1a_981130370r_007.rst

Group Report For : AR1016

Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Sample Conc. ug/L	Amt. Ext.(L)	Dilution Factor	Final Vol. (ml)
10.25	Aroclor 1016-1	20210	0.3789	3.7893	1.0000	1.0000	10.0000
12.43	Aroclor 1016-2	26840	0.3886	3.8865	1.0000	1.0000	10.0000
13.40	Aroclor 1016-3	81983	0.3879	3.8792	1.0000	1.0000	10.0000
13.76	Aroclor 1016-4	36376	0.3928	3.9279	1.0000	1.0000	10.0000
15.83	Aroclor 1016-5	29165	0.4274	4.2744	1.0000	1.0000	10.0000

Group Report For : AR1260

Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Sample Conc. ug/L	Amt. Ext.(L)	Dilution Factor	Final Vol. (ml)
20.74	Aroclor 1260-1	55860	0.3925	3.9253	1.0000	1.0000	10.0000
21.72	Aroclor 1260-2	74973	0.3993	3.9933	1.0000	1.0000	10.0000
22.29	Aroclor 1260-3	39993	0.3939	3.9391	1.0000	1.0000	10.0000
24.05	Aroclor 1260-4	91592	0.4318	4.3179	1.0000	1.0000	10.0000
25.08	Aroclor 1260-5	51759	0.4202	4.2015	1.0000	1.0000	10.0000

TEST CODE :WPCB0A1

JOB NUMBER :9803.017

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : ROY F. WESTON - EDISON

TEST NAME : 8082 PCB

UNITS : UG/L

SAMPLE ID LAB : EE-98-19597

MATRIX: WATER

SAMPLE ID CLIENT: RB-1

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.50
PCB-1254	ND		0.50
PCB-1221	ND		1.0
PCB-1232	ND		0.50
PCB-1248	ND		0.50
PCB-1260	ND		0.50
PCB-1016	ND		0.50

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

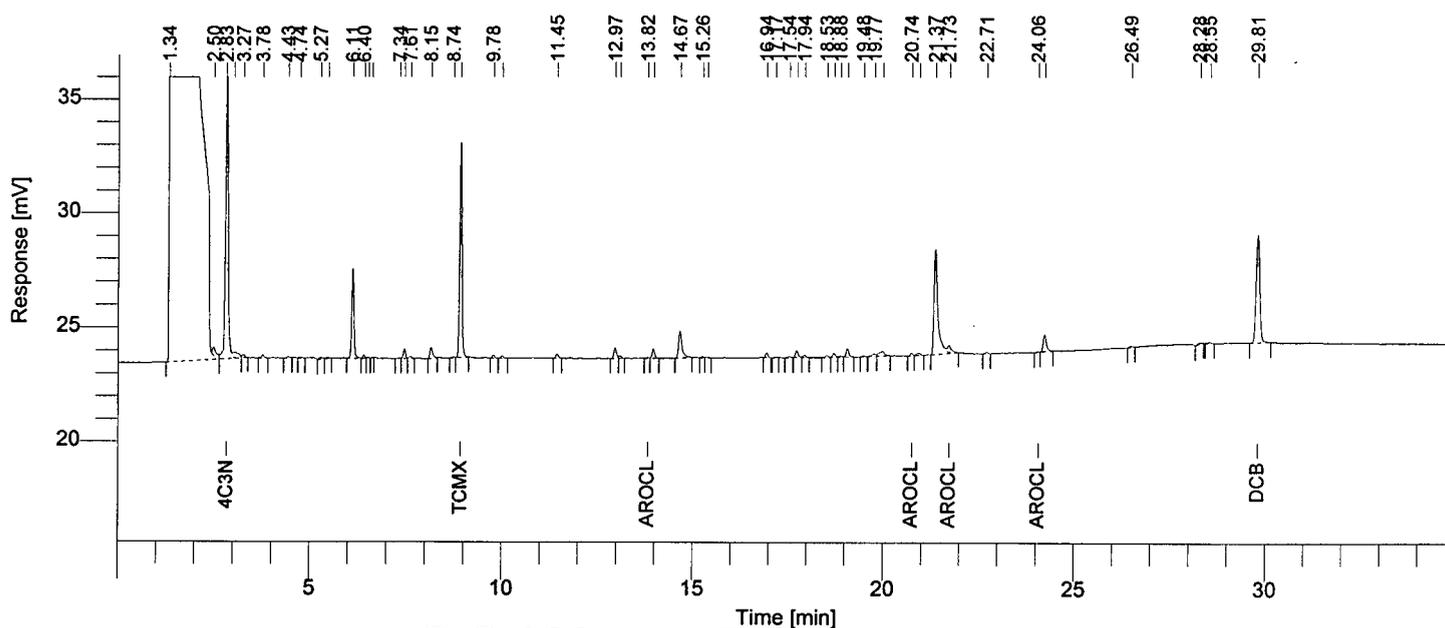
J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

Software Version	: 6.1.0.2:G07	Date	: 11/30/98 10:20:11 PM
Operator	: SCHMITZR	Sample Name	: 19597
Sample Number	: 008	Study	: 9803.017
AutoSampler	: HP7673A	Rack/Vial	: 1/8
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.99 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 8
Data Acquisition Time	: 11/30/98 06:41:11 PM		

Raw Data File : \\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_008.raw
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 Inst Method : NoInstFile from \\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_008.rst
 Proc Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
 Calib Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
 Sequence File : \\gcsrv1\TCData\Hp58901\NOV\11-30\HP1_1130R.seq



GC Water PCB Report

HP5890 1A RTX-5 30m 0.53mm 2ul Inj method 8081

Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Sample Conc. ug/L	Amt. Ext.(L)	Dilution Factor	Final Vol. (ml)
2.83	4C3N	60385	0.0330	0.3304	1.0000	1.0000	10.0000
8.92	TCMX	37751	0.0167	0.1669	1.0000	1.0000	10.0000
13.82	AR1016	193	0.0004	0.0039	1.0000	1.0000	10.0000
21.73	AR1260	3199	0.0042	0.0417	1.0000	1.0000	10.0000
29.81	DCB	31393	0.0125	0.1245	1.0000	1.0000	10.0000

11/30/98 10:20:11 PM Result:

\\gcsrv1\TCDData\hp58901\nov\11-30\hp1a_981130370r_008.rst

Group Report For : AR1016

Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Sample Conc. ug/L	Amt. Ext.(L)	Dilution Factor	Final Vol. (ml)
10.26	Aroclor 1016-1	0	0.0000	0.0000	1.0000	1.0000	10.0000
12.44	Aroclor 1016-2	0	0.0000	0.0000	1.0000	1.0000	10.0000
13.41	Aroclor 1016-3	0	0.0000	0.0000	1.0000	1.0000	10.0000
13.82	Aroclor 1016-4	193	0.0021	0.0208	1.0000	1.0000	10.0000
15.85	Aroclor 1016-5	0	0.0000	0.0000	1.0000	1.0000	10.0000

Group Report For : AR1260

Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Sample Conc. ug/L	Amt. Ext.(L)	Dilution Factor	Final Vol. (ml)
20.74	Aroclor 1260-1	612	0.0043	0.0430	1.0000	1.0000	10.0000
21.73	Aroclor 1260-2	2450	0.0130	0.1305	1.0000	1.0000	10.0000
22.31	Aroclor 1260-3	0	0.0000	0.0000	1.0000	1.0000	10.0000
24.06	Aroclor 1260-4	138	0.0006	0.0065	1.0000	1.0000	10.0000
25.10	Aroclor 1260-5	0	0.0000	0.0000	1.0000	1.0000	10.0000

WATER EXTRACTION LOGBOOK

Test PCB SOP No. 4 REV No. 4 Batch No. 981125398P Box No. 6549
Extracted By R. Bround Extraction Date 11/25/98 Extraction Method 3520C

Materials Used: mL 1.0 Surrogate 1245-43-3 Expiration Date 1-1-99
mL 1.0 Spike 1245-98-1 Expiration Date 4/30/99
mL 1.0 ¹⁶⁵ Spike Expiration Date

Solvent Lot No.: Methylene Chloride M33279
Acetone NA
Hexane 220317
Acetonitrile NA
Diethyl Ether NA
Na2SO4 M14635

Table with columns: Job No./Client, Sample No., Sample Vol. (mL), Initial pH, Final Vol. (mL), Concentrated By/Date, Comments. Includes handwritten entries for jobs 1350-040-1 through 1350-040-3, 9803.017, 9803.036, and a large diagonal signature 'R. Bround 11/25/98'.

I have witnessed the addition of surrogate and spiking solutions. The correct type and amount has been added as indicated in the SOP. (Signed) [Signature] Date 11/25/98
The above information is a complete and accurate statement of the work it documents. All deviations have been noted. Corrective action forms have been completed if applicable. (Signed) [Signature] Date 11/25/98

IC

6J

PCB INITIAL RT WINDOW OF MULTI-COMPONENT ANALYTES

Lab Name: E & E INC.

Contract:

Instrument: HP68901 A

Date(s) Analyzed:

Column: RTX-5

11/24/98 to 11/24/98

LEVEL						INITIAL WINDOW	
COMPOUND	LOW	MED	HIGH	AVE RT	WINDOW	From	To
					(+/-)		
TCMX	14.47	14.47	14.48	14.47	0.05	14.42	14.52
Aroclor 1016-1	11.26	11.26	11.26	11.26	0.07	11.19	11.33
Aroclor 1016-2	13.50	13.50	13.50	13.50	0.07	13.43	13.57
Aroclor 1016-3	14.47	14.47	14.48	14.47	0.07	14.40	14.54
Aroclor 1016-4	14.84	14.84	14.84	14.84	0.07	14.77	14.91
Aroclor 1016-5	18.06	18.06	18.06	18.06	0.07	17.99	18.13
Aroclor 1260-1	21.04	21.04	21.05	21.04	0.07	20.97	21.11
Aroclor 1260-2	21.87	21.88	21.88	21.88	0.07	21.81	21.95
Aroclor 1260-3	22.87	22.88	22.88	22.88	0.07	22.81	22.95
Aroclor 1260-4	24.28	24.28	24.28	24.28	0.07	24.21	24.35
Aroclor 1260-5	25.20	25.21	25.21	25.21	0.07	25.14	25.28
DCB	31.58	31.58	31.59	31.58	0.10	31.48	31.68

6J

PCB INITIAL RT WINDOW OF MULTI-COMPONENT ANALYTES

Lab Name: E & E INC.

Contract:

Instrument: HP68901 A

Date(s) Analyzed:

Column: RTX-5

11/24/98 to 11/25/98

LEVEL						INITIAL	WINDOW
COMPOUND	LOW	MED	HIGH	AVE RT	WINDOW	From	To
					(+/-)		
TCMX	9.92	9.92	9.92	9.92	0.07	9.85	9.99
Aroclor 1254-1	15.70	15.70	15.70	15.70	0.07	15.63	15.77
Aroclor 1254-2	18.05	18.05	18.05	18.05	0.07	17.98	18.12
Aroclor 1254-3	18.85	18.85	18.85	18.85	0.07	18.78	18.92
Aroclor 1254-4	20.19	20.19	20.19	20.19	0.07	20.12	20.26
Aroclor 1254-5	21.10	21.09	21.10	21.10	0.07	21.03	21.17
DCB	31.58	31.57	31.57	31.57	0.07	31.50	31.64

6J

PCB INITIAL RT WINDOW OF MULTI-COMPONENT ANALYTES

Lab Name: E & E INC.

Contract:

Instrument: HP68901 A

Date(s) Analyzed:

Column: RTX-5

11/25/98 to 11/25/98

LEVEL						INITIAL	WINDOW
COMPOUND	LOW	MED	HIGH	AVE RT	WINDOW	From	To
					(+/-)		
Aroclor 1242-5	18.66	18.66	18.66	18.66	0.05	18.61	18.71
Aroclor 1242-1	11.26	11.26	11.26	11.26	0.05	11.21	11.31
Aroclor 1242-2	13.49	13.49	13.49	13.49	0.07	13.42	13.56
Aroclor 1242-3	14.47	14.47	14.47	14.47	0.07	14.40	14.54
Aroclor 1242-4	14.83	14.83	14.83	14.83	0.07	14.76	14.90

6J

PCB INITIAL RT WINDOW OF MULTI-COMPONENT ANALYTES

Lab Name: E & E INC.

Contract:

Instrument: HP68901 A

Date(s) Analyzed:

Column: RTX-5

11/25/98 to 11/25/98

LEVEL						INITIAL	WINDOW
COMPOUND	LOW	MED	HIGH	AVE RT	WINDOW	From	To
					(+/-)		
AROCLOR-1248	15.70	15.69	15.70	15.70	0.05	15.65	15.75
AROCLOR-1248-2	16.48	16.47	16.48	16.48	0.05	16.43	16.53
AROCLOR-1248-3	16.93	16.93	16.94	16.93	0.07	16.86	17.00
AROCLOR-1248-4	18.03	18.03	18.03	18.03	0.07	17.96	18.10
AROCLOR-1248-5	18.65	18.65	18.66	18.65	0.07	18.58	18.72

PCB INITIAL CALIBRATION OF MULTI-COMPONENT ANALYTES

Lab Name: E & E INC.

Contract:

Instrument:

HP68901 A

Date(s) Analyzed:

Column:

RTX-5

11/24/98

to

11/24/98

LEVEL (ug/ml)							
Area							
COMPOUND	0.05	0.1	0.2	0.4	1.0	Ave CF	% RSD
Aroclor 1016-1	12284	23259	44039	82528	184401	217837	10.9
Aroclor 1016-2	14069	26731	51489	97019	224890	254715	8.6
Aroclor 1016-3	43637	82790	157723	296290	680449	782086	9.6
Aroclor 1016-4	17914	35886	66457	123577	283604	328394	9.9
Aroclor 1016-5	10778	20418	37151	74952	171825	192940	8.9
Aroclor 1260-1	27691	51055	90732	177218	410137	474242	12.1
Aroclor 1260-2	29508	53542	95260	185871	425290	498370	13.0
Aroclor 1260-3	33909	61303	110711	221318	528783	585369	10.3
Aroclor 1260-4	17333	32260	57954	113496	264837	301521	10.9
Aroclor 1260-5	35885	65685	124431	245580	597609	641653	7.4
COMPOUND	0.005	0.01	0.02	0.04	0.1	Ave CF	% RSD
TCMX	35104	69451	157095	302051	757272	7388929	5.3
DCB	39378	74924	157188	268216	647559	7281678	9.0

Average 9.6

6F

PCB INITIAL CALIBRATION OF MULTI-COMPONENT ANALYTES

Lab Name: E & E INC.

Contract:

Instrument:

HP68901 A

Date(s) Analyzed:

Column:

RTX-5

11/24/98 to 11/25/98

LEVEL (ug/ml)							
Area							
COMPOUND	0.05	0.1	0.2	0.4	1.0	Ave CF	% RSD
Aroclor 1254-1	12779	23722	48311	83602	186432	225958	12.3
Aroclor 1254-2	21554	41127	80388	145042	324895	386358	11.0
Aroclor 1254-3	31114	58682	112455	199156	442544	542362	13.3
Aroclor 1254-4	28896	55931	117070	209730	483331	546047	7.7
Aroclor 1254-5	33196	62952	127136	225278	499094	598282	11.1
COMPOUND	0.005	0.01	0.02	0.04	0.1	Ave CF	% RSD
TCMX	33094	66196	142395	285711	722268	6944721	4.3
DCB	39672	75556	148909	270344	640449	7219708	8.6

Average 9.8

6F

PCB INITIAL CALIBRATION OF MULTI-COMPONENT ANALYTES

Lab Name: E & E INC.

Contract:

Instrument: HP68901 A

Date(s) Analyzed:

Column: RTX-5

11/25/98 to 11/25/98

LEVEL (ug/ml)							
Area							
COMPOUND	0.05	0.1	0.2	0.4	1.0	Ave CF	% RSD
Aroclor 1242-5	10094	19525	39445	71917	174575	189745	6.3
Aroclor 1242-1	10558	20486	40632	71418	163220	192189	10.6
Aroclor 1242-2	10569	20598	41395	73739	175646	196866	8.0
Aroclor 1242-3	33072	64834	128294	227024	530234	609809	9.4
Aroclor 1242-4	13607	28364	55485	97162	222509	259724	10.0

Average 8.9

PCB INITIAL CALIBRATION OF MULTI-COMPONENT ANALYTES

Lab Name: E & E INC.

Contract:

Instrument: HP68901 A

Date(s) Analyzed:

Column: RTX-5

11/25/98 to 11/25/98

LEVEL (ug/ml)							
Area							
COMPOUND	0.05	0.1	0.2	0.4	1.0	Ave CF	% RSD
AROCLOR-1248	17037	34478	64666	119626	258591	313301	11.3
AROCLOR-1248-2	16869	31462	61472	120142	269847	305912	8.0
AROCLOR-1248-3	15765	31211	59374	121065	284685	302326	4.1
AROCLOR-1248-4	24945	46231	86575	162231	369648	433862	11.5
AROCLOR-1248-5	18811	34533	63073	118329	279606	322469	12.0

Average 9.4

E. & E. Inc. ASC GC Lab Instrument Runlog

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Notebook # 1219 Page # 188

Method: GC.14(8081) GC.72(8081A) GC.73(8082)

Inst.ID: H06890#1

Operator: R. Schmitt Init: RS Date: 11/20/98

Oven Prog: 150C, 1 min, 5c/min => 280C, 11 min

Inj Temp: 200C Det Temp: 300C Detector A,B ECD.ECD

Column A/B: RTX5/RTX55 30M 0.53mm 1.0um film

11/30/98

Column (B)

11/30/98

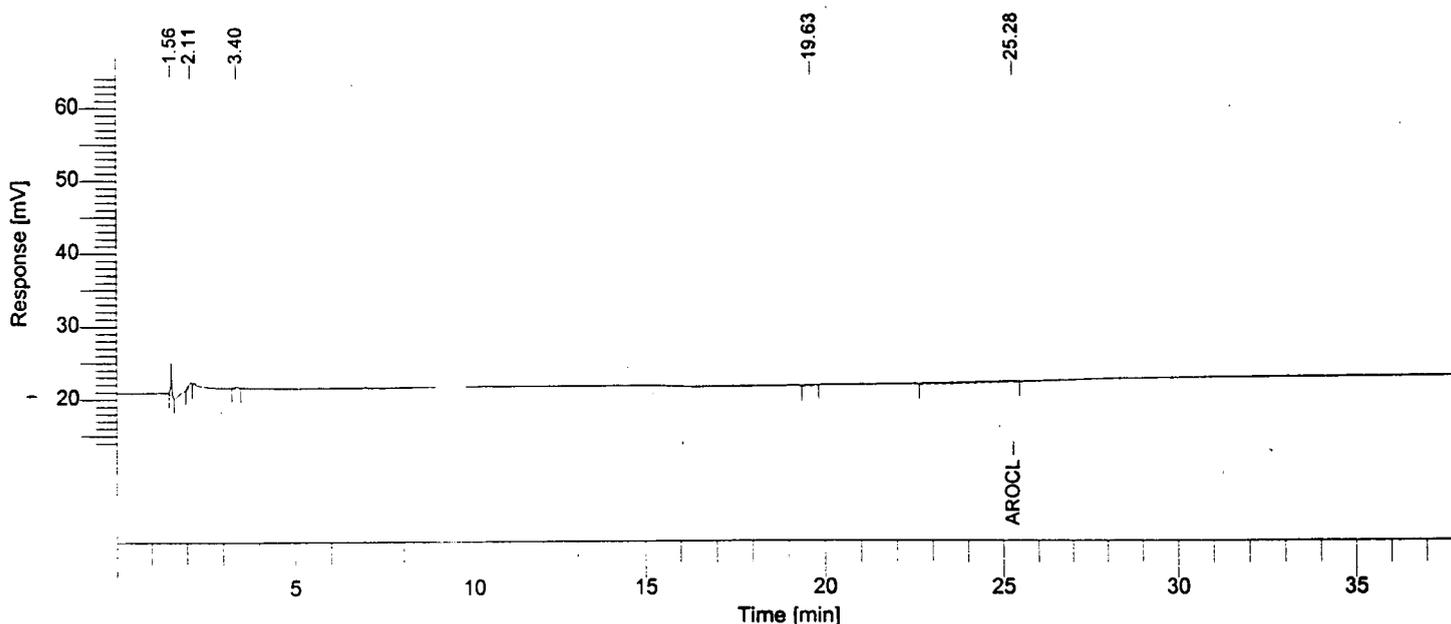
File Name	Job Number	Sample Name	Date of Injection	Time of Injection	COMMENTS	DEC DIL
681B 981124321R 001.rst		HEXANE	11/24/98	04:18:32 PM	BAKER L20317	1
681B 981124321R 002.rst		HEXANE	11/24/98	05:02:11 PM	BAKER L20317	1
681B 981124321R 003.rst	ICAL	0.05UG/ML AR1660	11/24/98	05:45:50 PM	445-186-2	1
681B 981124321R 004.rst	ICAL	0.1UG/ML AR1660	11/24/98	06:29:33 PM	445-186-3	1
681B 981124321R 005.rst	ICAL	0.2UG/ML AR1660	11/24/98	07:12:35 PM	1245-102-3	1
681B 981124321R 006.rst	ICAL	0.4UG/ML AR1660	11/24/98	07:56:18 PM	445-186-5	1
681B 981124321R 007.rst	ICAL	1.0UG/ML AR1660	11/24/98	08:39:15 PM	445-186-6	1
681B 981124321R 008.rst	ICAL	0.05UG/ML AR1254	11/24/98	09:22:13 PM	1245-56-1	1
681B 981124321R 009.rst	ICAL	0.1UG/ML AR1254	11/24/98	10:05:53 PM	1245-56-2	1
681B 981124321R 010.rst	ICAL	0.2UG/ML AR1254	11/24/98	10:48:50 PM	1245-98-2	1
681B 981124321R 011.rst	ICAL	0.4UG/ML AR1254	11/24/98	11:32:34 PM	1245-56-4	1
681B 981124321R 012.rst	ICAL	1.0UG/ML AR1254	11/25/98	12:16:11 AM	1245-56-5	1
681B 981124321R 013.rst	ICAL	0.05UG/ML AR1242	11/25/98	12:59:46 AM	1245-56-7	1
681B 981124321R 014.rst	ICAL	0.1UG/ML AR1242	11/25/98	01:42:45 AM	1245-56-8	1
681B 981124321R 015.rst	ICAL	0.2UG/ML AR1242	11/25/98	02:26:29 AM	1245-80-2	1
681B 981124321R 016.rst	ICAL	0.4UG/ML AR1242	11/25/98	03:10:06 AM	1245-56-10	1
681B 981124321R 017.rst	ICAL	1.0UG/ML AR1242	11/25/98	03:53:45 AM	1245-56-11	1
681B 981124321R 018.rst	ICAL	0.05UG/ML AR1248	11/25/98	04:37:22 AM	1245-83-6	1
681B 981124321R 019.rst	ICAL	0.1UG/ML AR1248	11/25/98	05:20:57 AM	1245-83-7	1
681B 981124321R 020.rst	ICAL	0.2UG/ML AR1248	11/25/98	06:03:58 AM	1245-83-8	1
681B 981124321R 021.rst	ICAL	0.4UG/ML AR1248	11/25/98	06:47:38 AM	1245-83-9	1
681B 981124321R 022.rst	ICAL	1.0UG/ML AR1248	11/25/98	07:30:36 AM	1245-83-10	1
681B 981124321R 023.rst		AR1660 REF	11/25/98	08:14:15 AM	1245-88-3	1
681B 981124321R 024.rst		AR1254 REF	11/25/98	08:57:10 AM	1245-83-11	1
681B 981124321R 025.rst		AR1242 REF	11/25/98	09:40:10 AM	1245-83-12	1
681B 981124321R 026.rst		AR1248 REF	11/25/98	10:23:55 AM	1245-87-2	1
681B 981124321R 027.rst	9802.855 (WATER)	WBLK 1343-292-1	11/25/98	12:01:44 PM	HG&H2SO4	1
681B 981124321R 028.rst	9802.855 (WATER)	W LCS1343-296-4	11/25/98	12:44:45 PM	HG&H2SO4	1
681B 981124321R 029.rst	9802.855 (SOIL)	SBLK 1351-90-1	11/25/98	01:27:46 PM	HG&H2SO4	1
681B 981124321R 030.rst	9802.855 (SOIL)	SLCS 1351-90-2	11/25/98	02:11:26 PM	HG&H2SO4	1
681B 981124321R 031.rst	9802.855 (WATER)	18605	11/25/98	02:55:11 PM	HG&H2SO4	1
681B 981124321R 032.rst	9802.855 (SOIL)	18603	11/25/98	04:30:56 PM	HG&H2SO4	1
681B 981124321R 033.rst	9802.855 (SOIL)	18603 MS	11/25/98	05:14:07 PM	HG&H2SO4	1
681B 981124321R 034.rst	9802.855 (SOIL)	18603 MSD	11/25/98	05:57:10 PM	HG&H2SO4	1
681B 981124321R 035.rst	9802.855 (SOIL)	18604	11/25/98	06:40:16 PM	HG&H2SO4	1
681B 981124321R 036.rst		HEXANE	11/25/98	07:23:20 PM	BAKER L20317	1
681B 981124321R 037.rst	CCV	AR1660 1124 M1	11/25/98	08:06:22 PM	1245-102-3	1
681B 981124321R 038.rst	CCV	AR1254 1124 M1	11/25/98	08:49:26 PM	1245-98-2	1
681B 981124321R 039.rst	9803.017/030	WBLK 1352-040-1	11/25/98	09:32:30 PM	HG&H2SO4	1
681B 981124321R 040.rst	9803.017/030	WLCS 1352-040-2	11/25/98	10:16:15 PM	HG&H2SO4	1
681B 981124321R 041.rst	9803.017/030	WLCS 1352-040-3	11/25/98	10:59:24 PM	HG&H2SO4	1
681B 981124321R 042.rst	9803.030	19718	11/25/98	11:42:30 PM	HG&H2SO4	1
681B 981124321R 043.rst	9803.017	19597	11/26/98	12:26:13 AM	HG&H2SO4	1
681B 981124321R 044.rst		HEXANE	11/26/98	01:09:22 AM	BAKER L20317	1
681B 981124321R 045.rst	CCV	AR1660 1124 M2	11/26/98	01:53:07 AM	1245-102-3	1
681B 981124321R 046.rst	9803.010	1351-114-1	11/26/98	02:36:16 AM	HG&H2SO4	1
681B 981124321R 047.rst	9803.010	1351-114-2	11/26/98	03:20:02 AM	HG&H2SO4	1
681B 981124321R 048.rst	9803.010	19508	11/26/98	04:03:09 AM	HG&H2SO4	1
681B 981124321R 049.rst	9803.010	19508 MS	11/26/98	04:46:53 AM	HG&H2SO4	1
681B 981124321R 050.rst	9803.010	19508 MSD	11/26/98	05:30:38 AM	HG&H2SO4	1
681B 981124321R 051.rst	9803.010	19509	11/26/98	06:14:23 AM	HG&H2SO4	1
681B 981124321R 052.rst	9803.010	19510	11/26/98	06:57:25 AM	HG&H2SO4	1

[Handwritten signature]

Witnessed & Understood by me,	Date	Invented by	Date <u>12/5</u>
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Software Version	: 6.1.0.2:G07	Date	: 11/25/98 10:08:41 AM
Operator	: PFALZERJ	Sample Name	: HEXANE
Sample Number	: 001	Study	:
AutoSampler	: BUILT-IN	Rack/Vial	: 1/1
Instrument Name	: HP68901	Channel	: A
Instrument Serial #	: US00009536	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 37.97 min
Sampling Rate	: 5.0000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 1
Data Acquisition Time	: 11/24/98 04:18:32 PM		

Raw Data File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_001.raw
Result File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_001.rst
Inst Method : NoInstFile from \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_001.rst
Proc Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1660_1124.mth
Calib Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1660_1124.mth
Sequence File : \\gcsrv1\TCData\HP68901\NOV\11-24\681_1124r.seq



GC PCB Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
	25.28	AR1260	13051	0.0052

11/25/98 10:08:41 AM Result:
\\gcsrv1\TCDData\HP68901\NOV\11-24\681A_981124320R_001.rst

Group Report For : AR1016

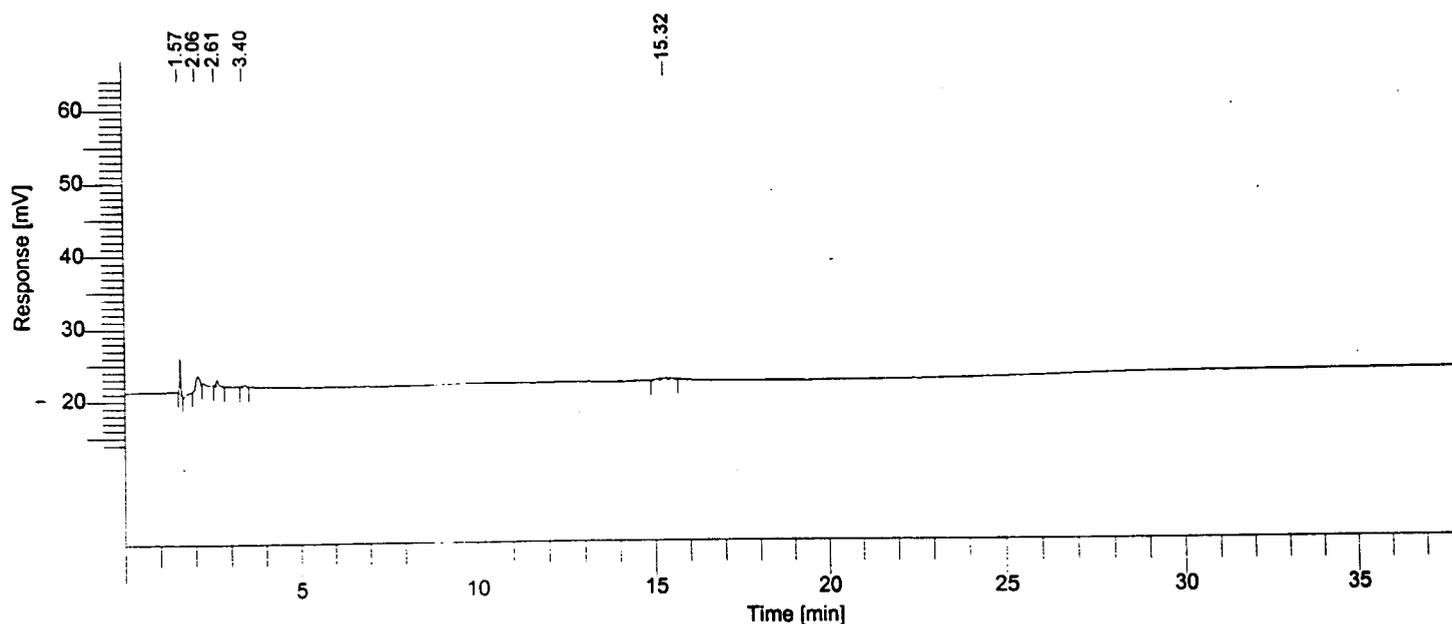
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
-	11.26	Aroclor 1016-1	0	0.0000
-	13.50	Aroclor 1016-2	0	0.0000
-	14.47	Aroclor 1016-3	0	0.0000
-	14.84	Aroclor 1016-4	0	0.0000
-	18.06	Aroclor 1016-5	0	0.0000

Group Report For : AR1260

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
-	21.04	Aroclor 1260-1	0	0.0000
-	21.88	Aroclor 1260-2	0	0.0000
-	22.88	Aroclor 1260-3	0	0.0000
-	24.28	Aroclor 1260-4	0	0.0000
5	25.28	Aroclor 1260-5	13051	0.0203

Software Version	: 6.1.0.2:G07	Date	: 11/25/98 10:08:49 AM
Operator	: PFALZERJ	Sample Name	: HEXANE
Sample Number	: 002	Study	:
AutoSampler	: BUILT-IN	Rack/Vial	: 1/2
Instrument Name	: HP68901	Channel	: A
Instrument Serial #	: US00009536	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 37.97 min
Sampling Rate	: 5.0000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 2
Data Acquisition Time	: 11/24/98 05:02:11 PM		

Raw Data File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_002.raw
 Result File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_002.rst
 Inst Method : NoInstFile from \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_002.rst
 Proc Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1660_1124.mth
 Calib Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1660_1124.mth
 Sequence File : \\gcsrv1\TCData\HP68901\NOV\11-24\681_1124r.seq



GC PCB Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

No peaks available to report

Group Report For : AR1016

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
-	11.26	Aroclor 1016-1	0	0.0000
-	13.50	Aroclor 1016-2	0	0.0000
-	14.47	Aroclor 1016-3	0	0.0000
-	14.84	Aroclor 1016-4	0	0.0000
-	18.06	Aroclor 1016-5	0	0.0000

11/25/98 10:08:49 AM Result:

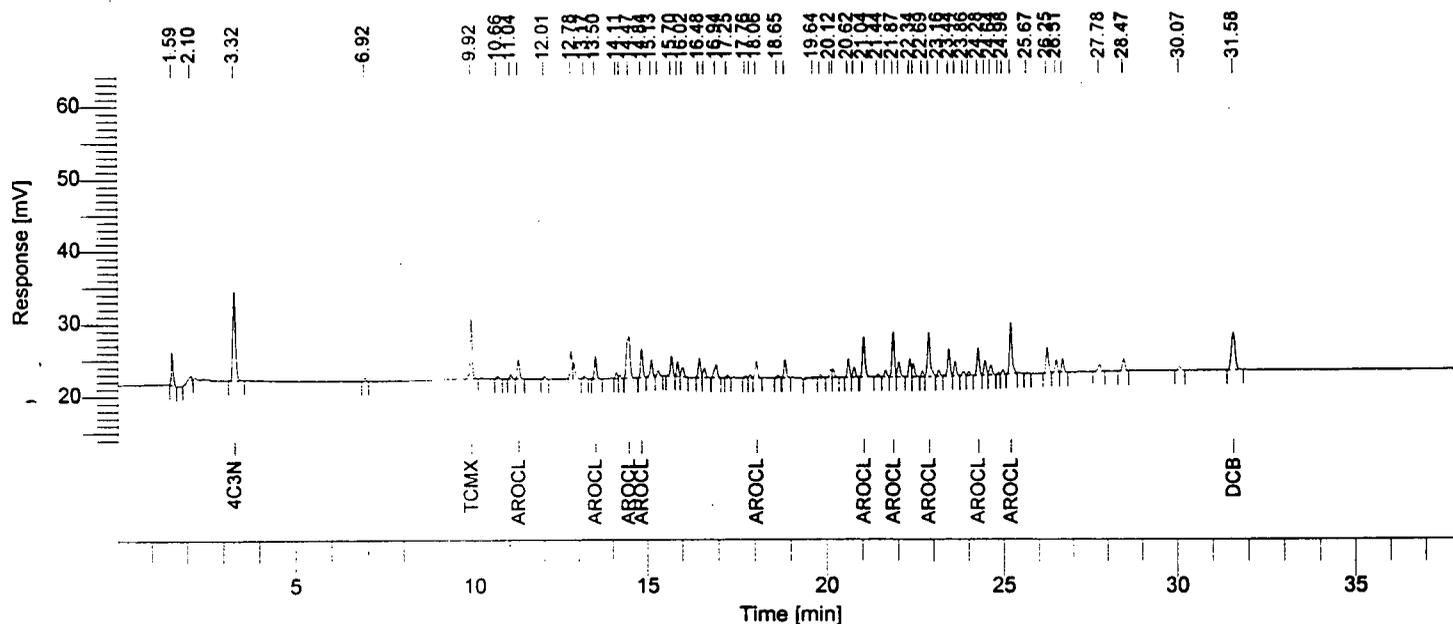
\\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_002.rst

Group Report For : AR1260

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
-	21.04	Aroclor 1260-1	0	0.0000
-	21.88	Aroclor 1260-2	0	0.0000
-	22.88	Aroclor 1260-3	0	0.0000
-	24.28	Aroclor 1260-4	0	0.0000
-	25.21	Aroclor 1260-5	0	0.0000

Software Version	: 6.1.0.2:G07	Date	: 11/25/98 10:08:59 AM
Operator	: PFALZERJ	Sample Name	: 0.05UG/ML AR1660
Sample Number	: 003	Study	: ICAL
AutoSampler	: BUILT-IN	Rack/Vial	: 1/3
Instrument Name	: HP68901	Channel	: A
Instrument Serial #	: US00009536	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 37.98 min
Sampling Rate	: 5.0000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 3
Data Acquisition Time	: 11/24/98 05:45:50 PM		

Raw Data File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_003.raw
 Result File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_003.rst
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 Proc Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1660_1124.mth
 Calib Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1660_1124.mth
 Sequence File : \\gcsrv1\TCData\HP68901\NOV\11-24\681_1124r.seq



GC PCB Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
3	3.32	4C3N	64851	0.0071
5	9.92	TCMX	35104	0.0048
	14.47	AR1016	98681	0.0556
	25.20	AR1260	144326	0.0577
64	31.58	DCB	39378	0.0054

11/25/98 10:08:59 AM Result:
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Group Report For : AR1016

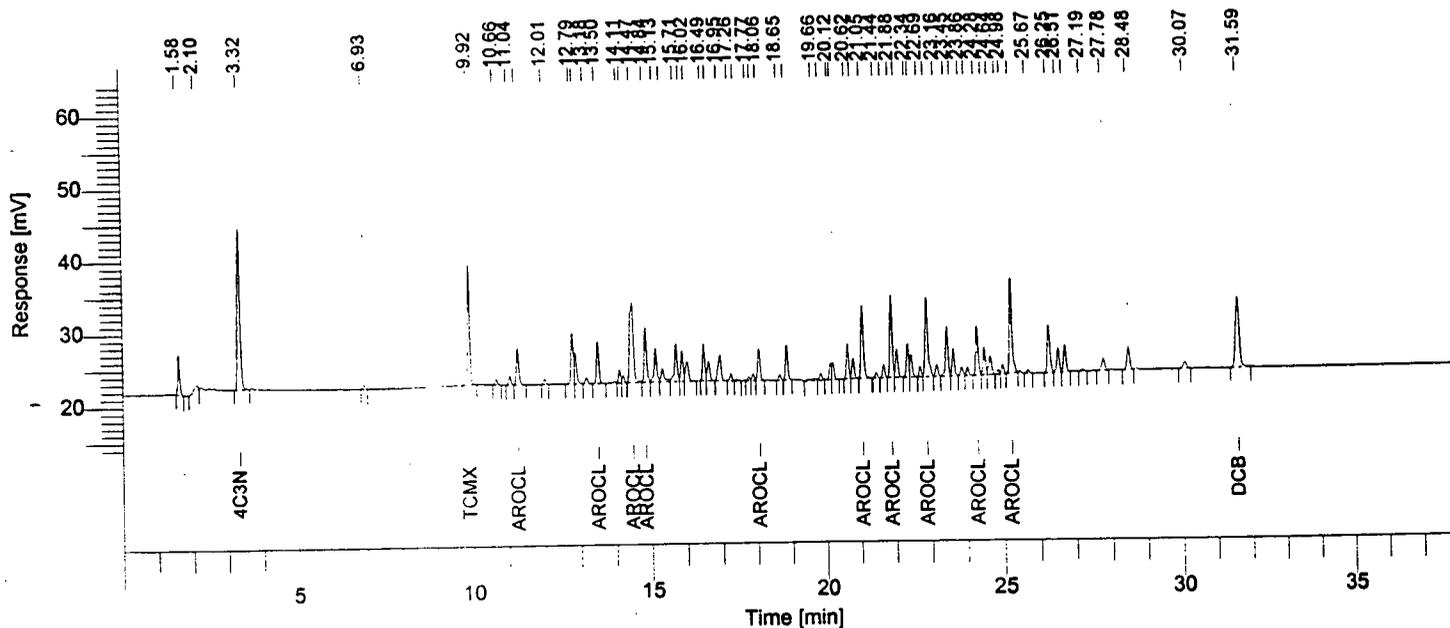
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
8	11.26	Aroclor 1016-1	12284	0.0564
12	13.50	Aroclor 1016-2	14069	0.0552
15	14.47	Aroclor 1016-3	43637	0.0558
16	14.84	Aroclor 1016-4	17914	0.0545
28	18.06	Aroclor 1016-5	10778	0.0559

Group Report For : AR1260

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
37	21.04	Aroclor 1260-1	27691	0.0584
40	21.87	Aroclor 1260-2	29508	0.0592
45	22.87	Aroclor 1260-3	33909	0.0579
51	24.28	Aroclor 1260-4	17333	0.0575
56	25.20	Aroclor 1260-5	35885	0.0559

Software Version	: 6.1.0.2:G07	Date	: 11/25/98 10:09:08 AM
Operator	: PFALZERJ	Sample Name	: 0.1UG/ML AR1660
Sample Number	: 004	Study	: ICAL
AutoSampler	: BUILT-IN	Rack/Vial	: 1/4
Instrument Name	: HP68901	Channel	: A
Instrument Serial #	: US00009536	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 37.99 min
Sampling Rate	: 5.0000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 4
Data Acquisition Time	: 11/24/98 06:29:33 PM		

Raw Data File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_004.raw
 Result File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_004.rst
 Inst Method : NoInstFile from \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_004.rst
 Proc Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1660_1124.mth
 Calib Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1660_1124.mth
 Sequence File : \\gcsrv1\TCData\HP68901\NOV\11-24\681_1124r.seq



GC PCB Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
3	3.32	4C3N	118665	0.0196
5	9.92	TCMX	69451	0.0094
	14.47	AR1016	189083	0.1065
	25.21	AR1260	263845	0.1055
67	31.59	DCB	74924	0.0103

11/25/98 10:09:08 AM Result:
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Group Report For : AR1016

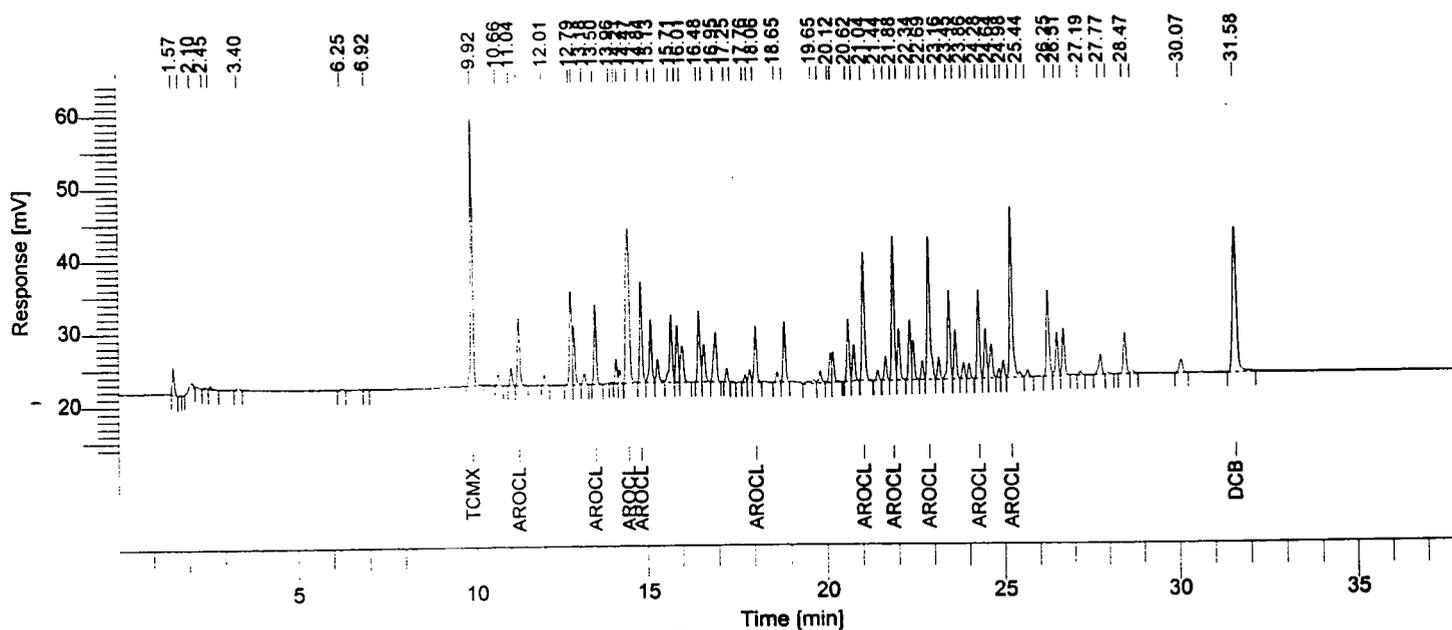
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
8	11.26	Aroclor 1016-1	23259	0.1068
13	13.50	Aroclor 1016-2	26731	0.1049
16	14.47	Aroclor 1016-3	82790	0.1059
17	14.84	Aroclor 1016-4	35886	0.1093
30	18.06	Aroclor 1016-5	20418	0.1058

Group Report For : AR1260

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
39	21.05	Aroclor 1260-1	51055	0.1077
42	21.88	Aroclor 1260-2	53542	0.1074
47	22.88	Aroclor 1260-3	61303	0.1047
53	24.28	Aroclor 1260-4	32260	0.1070
58	25.21	Aroclor 1260-5	65685	0.1024

Software Version	: 6.1.0.2:G07	Date	: 11/25/98 10:09:18 AM
Operator	: PFALZERJ	Sample Name	: 0.2UG/ML AR1660
Sample Number	: 005	Study	: ICAL
AutoSampler	: BUILT-IN	Rack/Vial	: 1/5
Instrument Name	: HP68901	Channel	: A
Instrument Serial #	: US00009536	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 37.98 min
Sampling Rate	: 5.0000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 5
Data Acquisition Time	: 11/24/98 07:12:35 PM		

Raw Data File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_005.raw
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 Inst Method : NoInstFile from \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_005.rst
 Proc Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1660_1124.mth
 Calib Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1660_1124.mth
 Sequence File : \\gcsrv1\TCData\HP68901\NOV\11-24\681_1124r.seq



GC PCB Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
9	9.92	TCMX	157095	0.0213
	14.47	AR1016	356859	0.2009
	25.21	AR1260	479088	0.1915
75	31.58	DCB	157188	0.0216

11/25/98 10:09:18 AM Result:

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Group Report For : AR1016

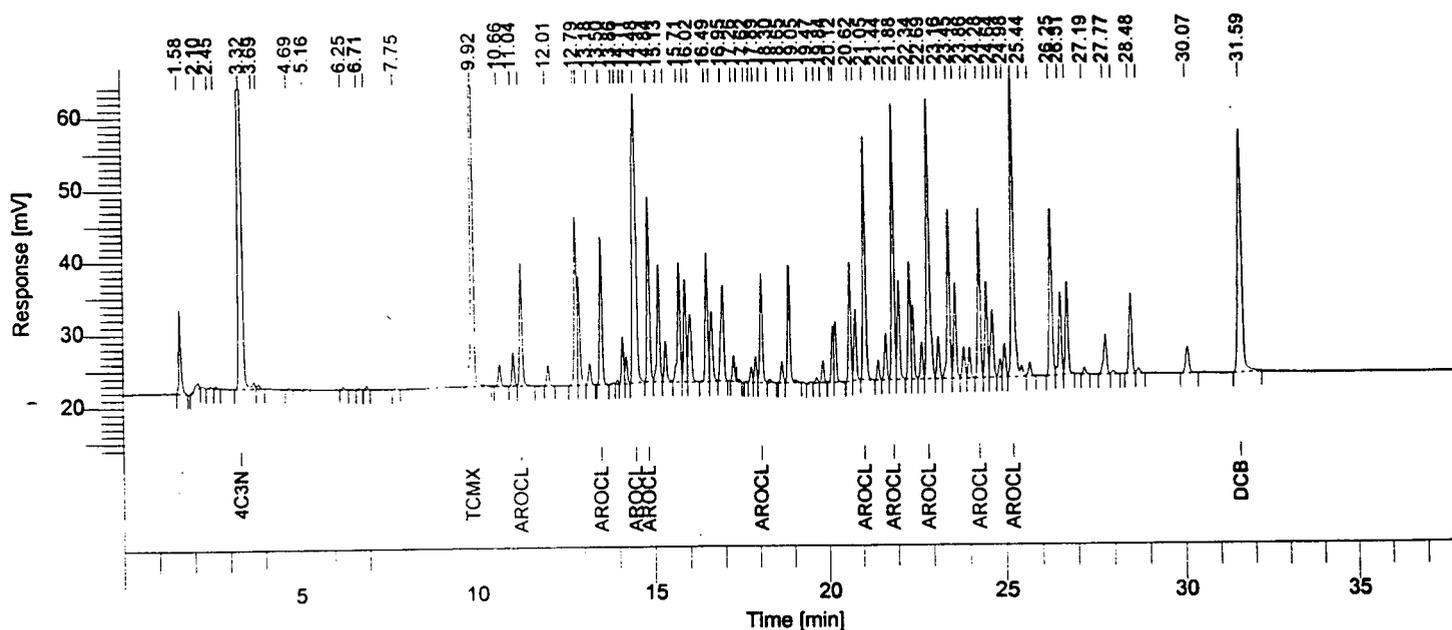
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
12	11.26	Aroclor 1016-1	44039	0.2022
17	13.50	Aroclor 1016-2	51489	0.2021
21	14.47	Aroclor 1016-3	157723	0.2017
22	14.84	Aroclor 1016-4	66457	0.2024
35	18.06	Aroclor 1016-5	37151	0.1926

Group Report For : AR1260

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
44	21.04	Aroclor 1260-1	90732	0.1913
47	21.88	Aroclor 1260-2	95260	0.1911
52	22.88	Aroclor 1260-3	110711	0.1891
58	24.28	Aroclor 1260-4	57954	0.1922
63	25.21	Aroclor 1260-5	124431	0.1939

Software Version	: 6.1.0.2:G07	Date	: 11/25/98 10:09:27 AM
Operator	: PFALZERJ	Sample Name	: 0.4UG/ML AR1660
Sample Number	: 006	Study	: ICAL
AutoSampler	: BUILT-IN	Rack/Vial	: 1/6
Instrument Name	: HP68901	Channel	: A
Instrument Serial #	: US00009536	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 37.94 min
Sampling Rate	: 5.0000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 6
Data Acquisition Time	: 11/24/98 07:56:18 PM		

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 Proc Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1660_1124.mth
 Calib Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1660_1124.mth
 Sequence File : \\gcsrv1\TCData\HP68901\NOV\11-24\681_1124r.seq



GC PCB Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
5	3.32	4C3N	491185	0.1064
14	9.92	TCMX	302051	0.0409
	14.48	AR1016	674366	0.3797
	25.21	AR1260	943483	0.3772
85	31.59	DCB	268216	0.0368

11/25/98 10:09:27 AM Result:
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Group Report For : AR1016

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
17	11.26	Aroclor 1016-1	82528	0.3789
22	13.50	Aroclor 1016-2	97019	0.3809
27	14.48	Aroclor 1016-3	296290	0.3788
28	14.84	Aroclor 1016-4	123577	0.3763
42	18.06	Aroclor 1016-5	74952	0.3885

Group Report For : AR1260

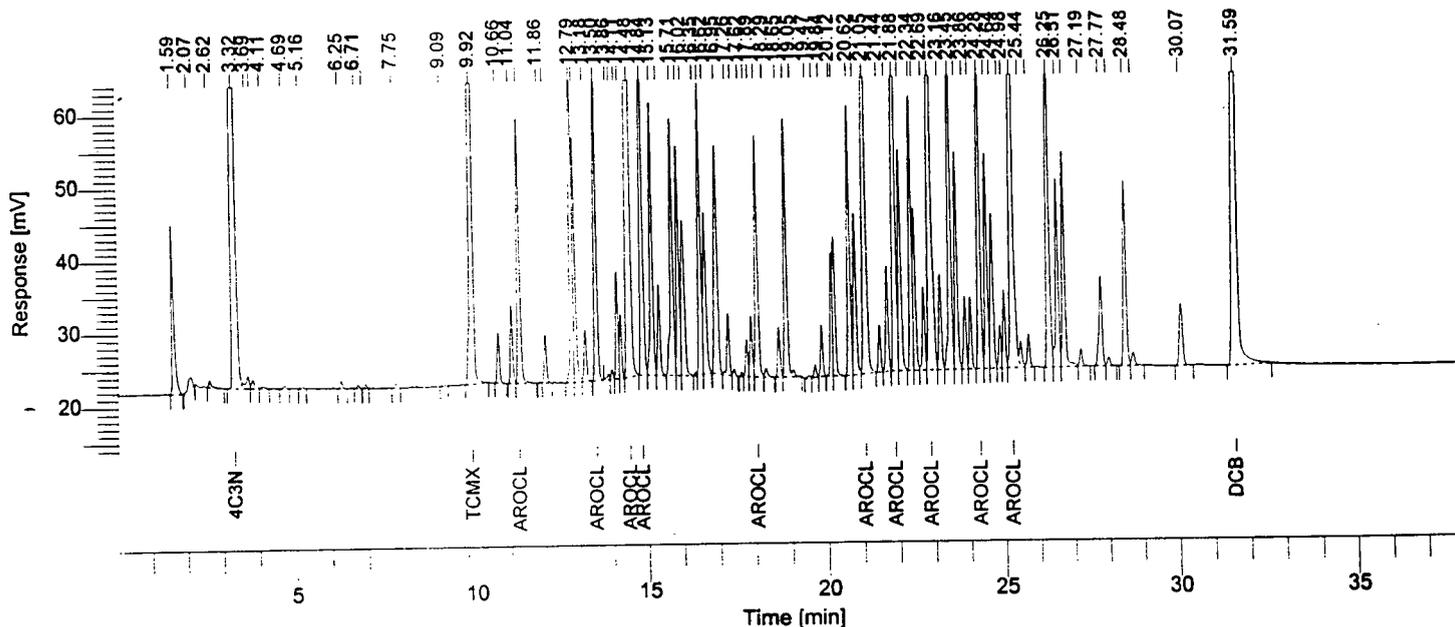
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
54	21.05	Aroclor 1260-1	177218	0.3737
57	21.88	Aroclor 1260-2	185871	0.3730
62	22.88	Aroclor 1260-3	221318	0.3781
68	24.28	Aroclor 1260-4	113496	0.3764
73	25.21	Aroclor 1260-5	245580	0.3827

Software Version : 6.1.0.2:G07
 Operator : PFALZERJ
 Sample Number : 007
 AutoSampler : BUILT-IN
 Instrument Name : HP68901
 Instrument Serial # : US00009536
 Delay Time : 0.00 min
 Sampling Rate : 5.0000 pts/s
 Volume Injected : 1.000000 ul
 Sample Amount : 1.0000
 Data Acquisition Time : 11/24/98 08:39:15 PM

Date : 11/25/98 10:09:37 AM
 Sample Name : 1.0UG/ML AR1660
 Study : ICAL
 Rack/Vial : 1/7
 Channel : A
 A/D mV Range : 1000
 End Time : 37.97 min

Area Reject : 100.000000
 Dilution Factor : 1.00
 Cycle : 7

Raw Data File : \\gcsrv1\TCDData\HP68901\NOV\11-24\681A_981124320R_007.raw
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 Sequence File : \\gcsrv1\TCDData\HP68901\NOV\11-24\681_1124r.seq



GC PCB Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
4	3.32	4C3N	879943	0.1970
15	9.92	TCMX	757272	0.1025
	14.48	AR1016	1545169	0.8700
	25.21	AR1260	2226657	0.8903
88	31.59	DCB	647559	0.0889

11/25/98 10:09:37 AM Result:
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Group Report For : AR1016

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
18	11.26	Aroclor 1016-1	184401	0.8465
24	13.50	Aroclor 1016-2	224890	0.8829
29	14.48	Aroclor 1016-3	680449	0.8700
30	14.84	Aroclor 1016-4	283604	0.8636
45	18.06	Aroclor 1016-5	171825	0.8906

Group Report For : AR1260

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
57	21.05	Aroclor 1260-1	410137	0.8648
60	21.88	Aroclor 1260-2	425290	0.8534
65	22.88	Aroclor 1260-3	528783	0.9033
71	24.28	Aroclor 1260-4	264837	0.8783
76	25.21	Aroclor 1260-5	597609	0.9314

```

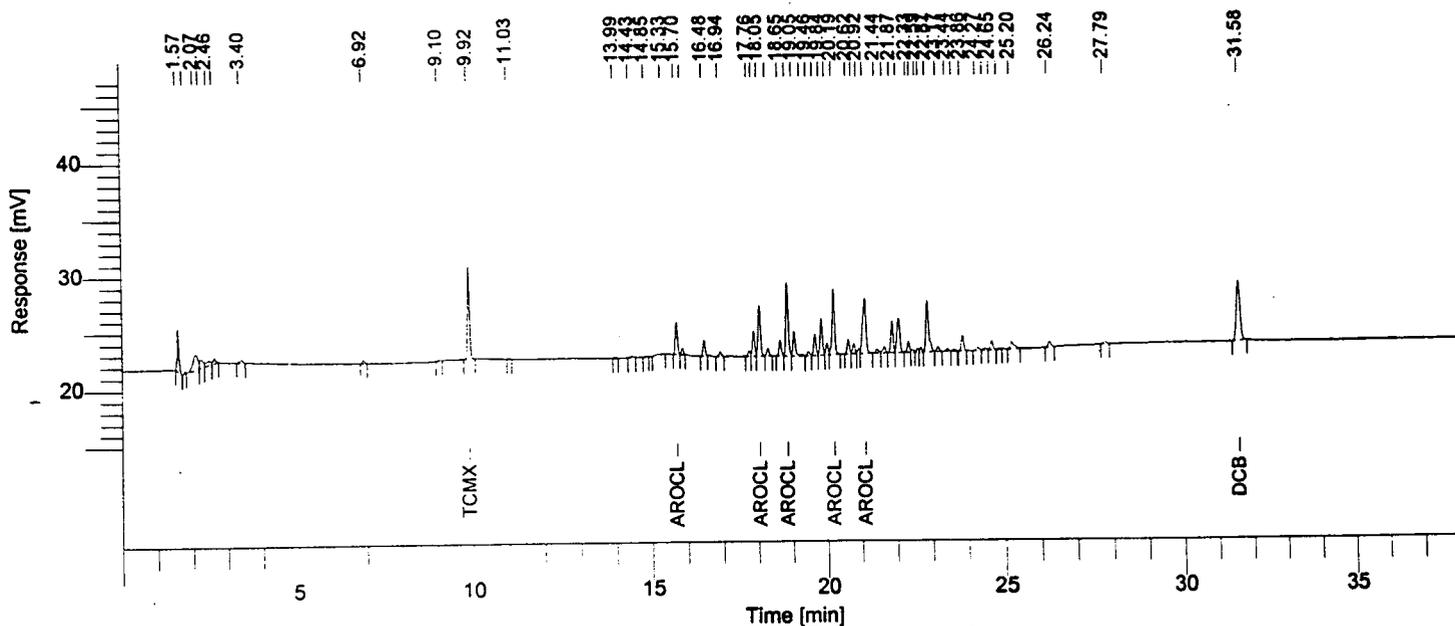
Software Version : 6.1.0.2:G07
Operator : PFALZERJ
Sample Number : 008
AutoSampler : BUILT-IN
Instrument Name : HP68901
Instrument Serial # : US00009536
Delay Time : 0.00 min
Sampling Rate : 5.0000 pts/s
Volume Injected : 1.000000 ul
Sample Amount : 1.0000
Data Acquisition Time : 11/24/98 09:22:13 PM

Date : 11/25/98 10:09:45 AM
Sample Name : 0.05UG/ML AR1254
Study : ICAL
Rack/Vial : 1/8
Channel : A
A/D mV Range : 1000
End Time : 37.99 min

Area Reject : 100.000000
Dilution Factor : 1.00
Cycle : 8
    
```

```

Raw Data File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_008.raw
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Proc Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1254_1124.mth
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Sequence File : \\gcsrv1\TCData\HP68901\NOV\11-24\681_1124r.seq
    
```



GC PCB Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
10	9.92	TCMX	33094	0.0048
	18.85	AR1254	127540	0.0555
57	31.58	DCB	39672	0.0055

11/25/98 10:09:45 AM Result:
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Group Report For : AR1254

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
16	15.70	Aroclor 1254-1	12779	0.0566
22	18.05	Aroclor 1254-2	21554	0.0558
25	18.85	Aroclor 1254-3	31114	0.0574
32	20.19	Aroclor 1254-4	28896	0.0529
36	21.10	Aroclor 1254-5	33196	0.0555

```

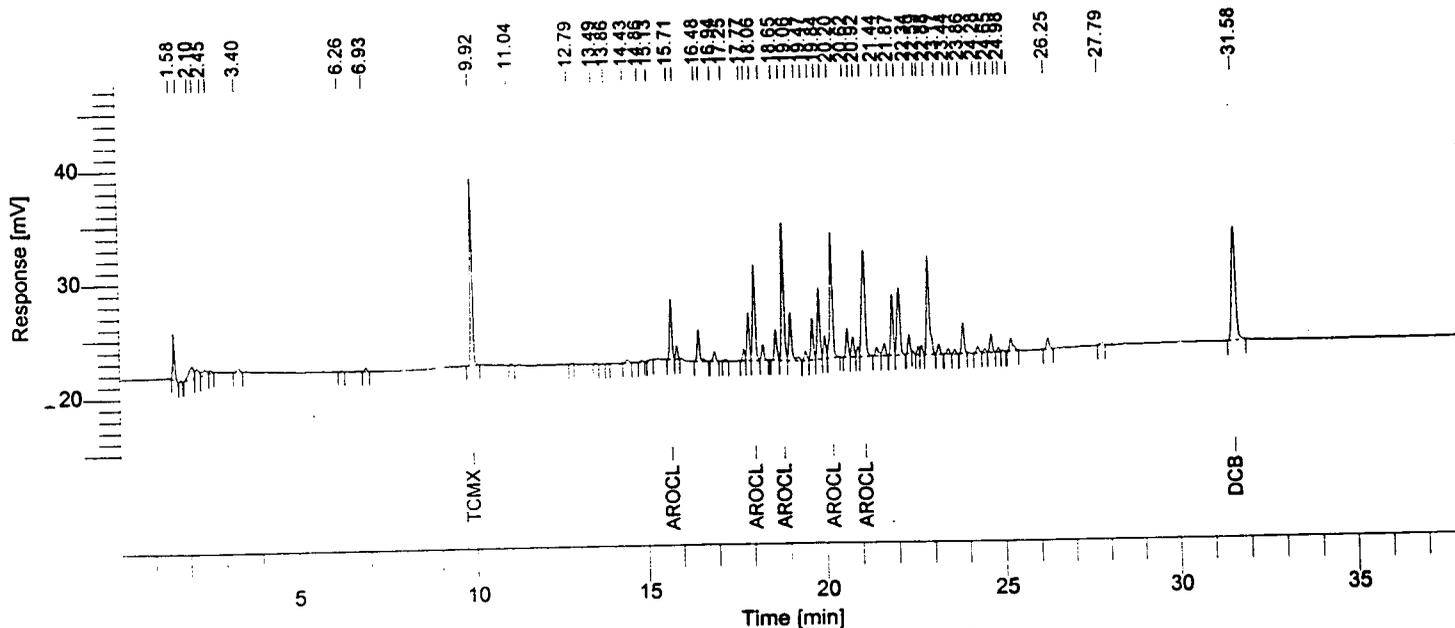
Software Version : 6.1.0.2:G07
Operator : PFALZERJ
Sample Number : 009
AutoSampler : BUILT-IN
Instrument Name : HP68901
Instrument Serial # : US00009536
Delay Time : 0.00 min
Sampling Rate : 5.0000 pts/s
Volume Injected : 1.000000 ul
Sample Amount : 1.0000
Data Acquisition Time : 11/24/98 10:05:53 PM

Date : 11/25/98 10:09:51 AM
Sample Name : 0.1UG/ML AR1254
Study : ICAL
Rack/Vial : 1/9
Channel : A
A/D mV Range : 1000
End Time : 37.99 min

Area Reject : 100.000000
Dilution Factor : 1.00
Cycle : 9
    
```

```

Raw Data File : \\gcsrv1\TCDData\HP68901\NOV\11-24\681A_981124320R_009.raw
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Proc Method : \\gcsrv1\TCDData\hp68901\methods\nov\11-24\681a_ar1254_1124.mth
Calib Method : \\gcsrv1\TCDData\hp68901\methods\nov\11-24\681a_ar1254_1124.mth
Sequence File : \\gcsrv1\TCDData\HP68901\NOV\11-24\681_1124r.seq
    
```



GC PCB Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
10	9.92	TCMX	66196	0.0095
	18.86	AR1254	242414	0.1054
61	31.58	DCB	75556	0.0105

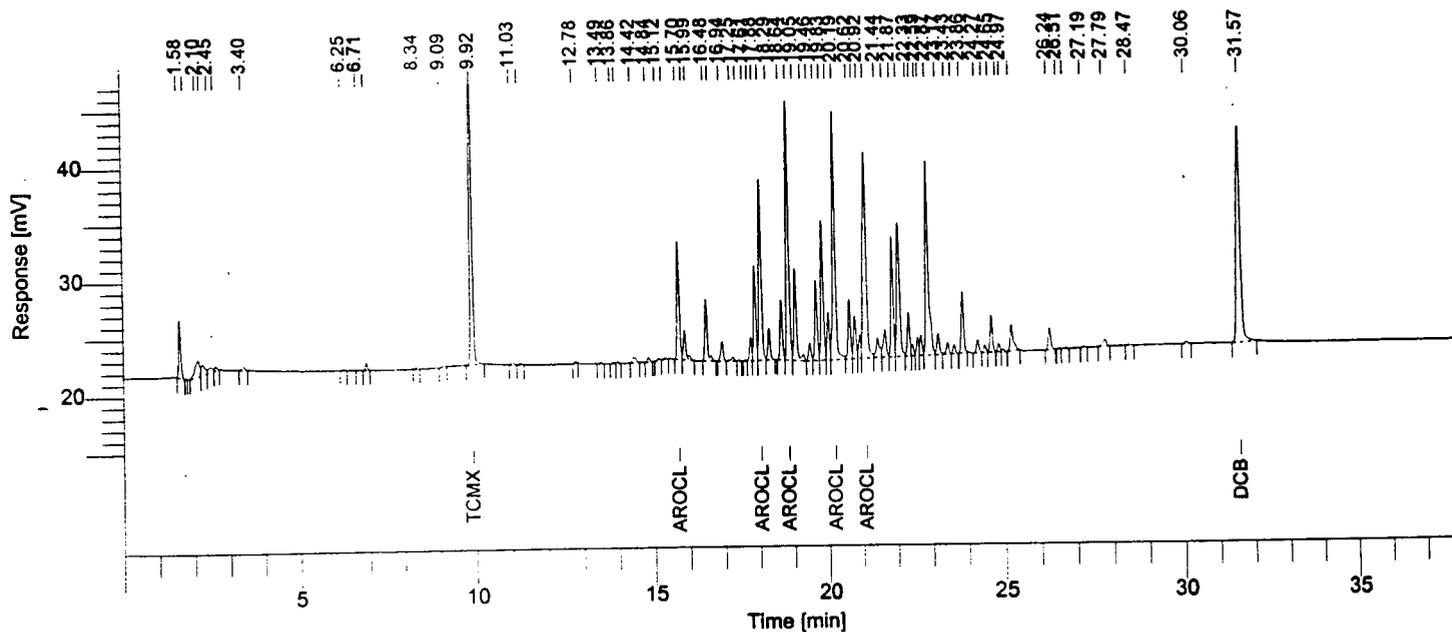
11/25/98 10:09:51 AM Result:
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Group Report For : AR1254

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
18	15.71	Aroclor 1254-1	23722	0.1050
26	18.06	Aroclor 1254-2	41127	0.1064
29	18.86	Aroclor 1254-3	58682	0.1082
36	20.20	Aroclor 1254-4	55931	0.1024
40	21.10	Aroclor 1254-5	62952	0.1052

Software Version	: 6.1.0.2:G07	Date	: 11/25/98 10:09:57 AM
Operator	: PFALZERJ	Sample Name	: 0.2UG/ML AR1254
Sample Number	: 010	Study	: ICAL
AutoSampler	: BUILT-IN	Rack/Vial	: 1/10
Instrument Name	: HP68901	Channel	: A
Instrument Serial #	: US00009536	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 37.97 min
Sampling Rate	: 5.0000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 10
Data Acquisition Time	: 11/24/98 10:48:50 PM		

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 Proc Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1254_1124.mth
 Calib Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1254_1124.mth
 Sequence File : \\gcsrv1\TCData\HP68901\NOV\11-24\681_1124r.seq



GC PCB Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
13	9.92	TCMX	142395	0.0205
	18.85	AR1254	485359	0.2111
76	31.57	DCB	148909	0.0206

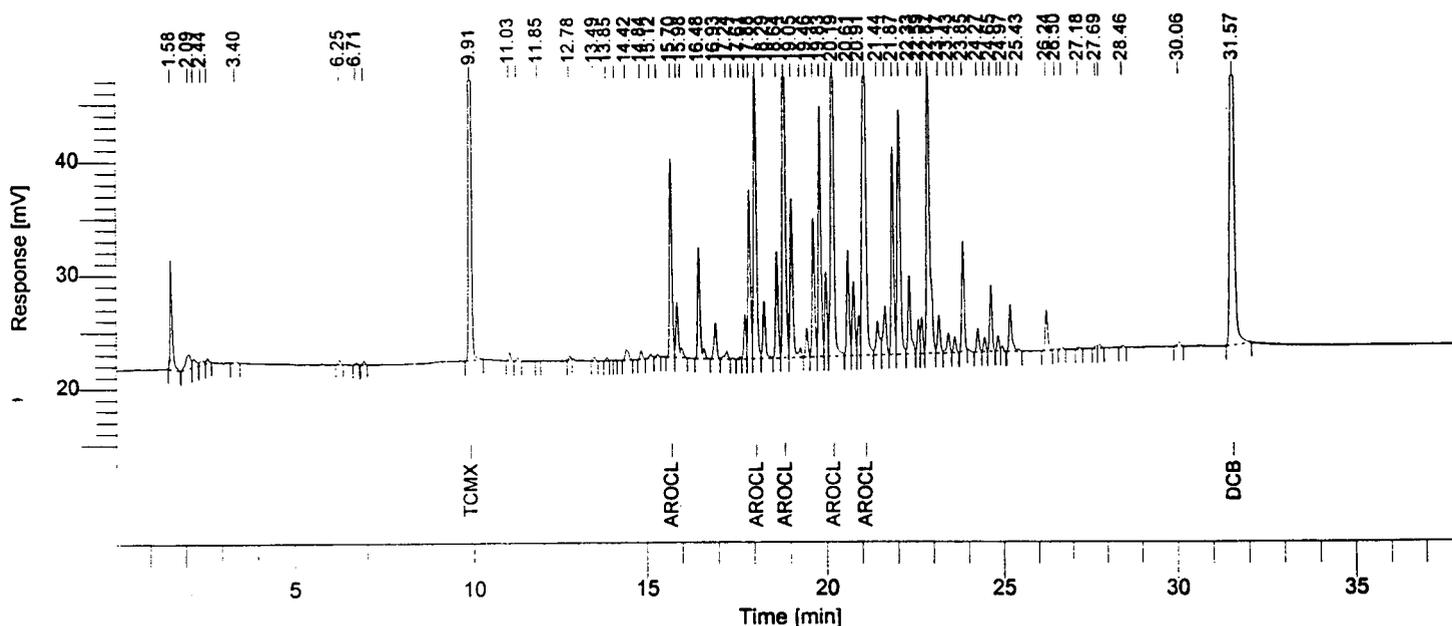
11/25/98 10:09:57 AM Result:
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Group Report For : AR1254

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
24	15.70	Aroclor 1254-1	48311	0.2138
35	18.05	Aroclor 1254-2	80388	0.2081
38	18.85	Aroclor 1254-3	112455	0.2073
45	20.19	Aroclor 1254-4	117070	0.2144
49	21.09	Aroclor 1254-5	127136	0.2125

Software Version	: 6.1.0.2:G07	Date	: 11/25/98 10:10:04 AM
Operator	: PFALZERJ	Sample Name	: 0.4UG/ML AR1254
Sample Number	: 011	Study	: ICAL
AutoSampler	: BUILT-IN	Rack/Vial	: 1/11
Instrument Name	: HP68901	Channel	: A
Instrument Serial #	: US00009536	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 37.94 min
Sampling Rate	: 5.0000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 11
Data Acquisition Time	: 11/24/98 11:32:34 PM		

Raw Data File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_011.raw
Result File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_011.rst
Inst Method : NoInstFile from \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_011.rst
Proc Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1254_1124.mth
Calib Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1254_1124.mth
Sequence File : \\gcsrv1\TCData\HP68901\NOV\11-24\681_1124r.seq



GC PCB Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
10	9.91	TCMX	285711	0.0411
	18.85	AR1254	862808	0.3753
75	31.57	DCB	270344	0.0374

11/25/98 10:10:04 AM Result:
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Group Report For : AR1254

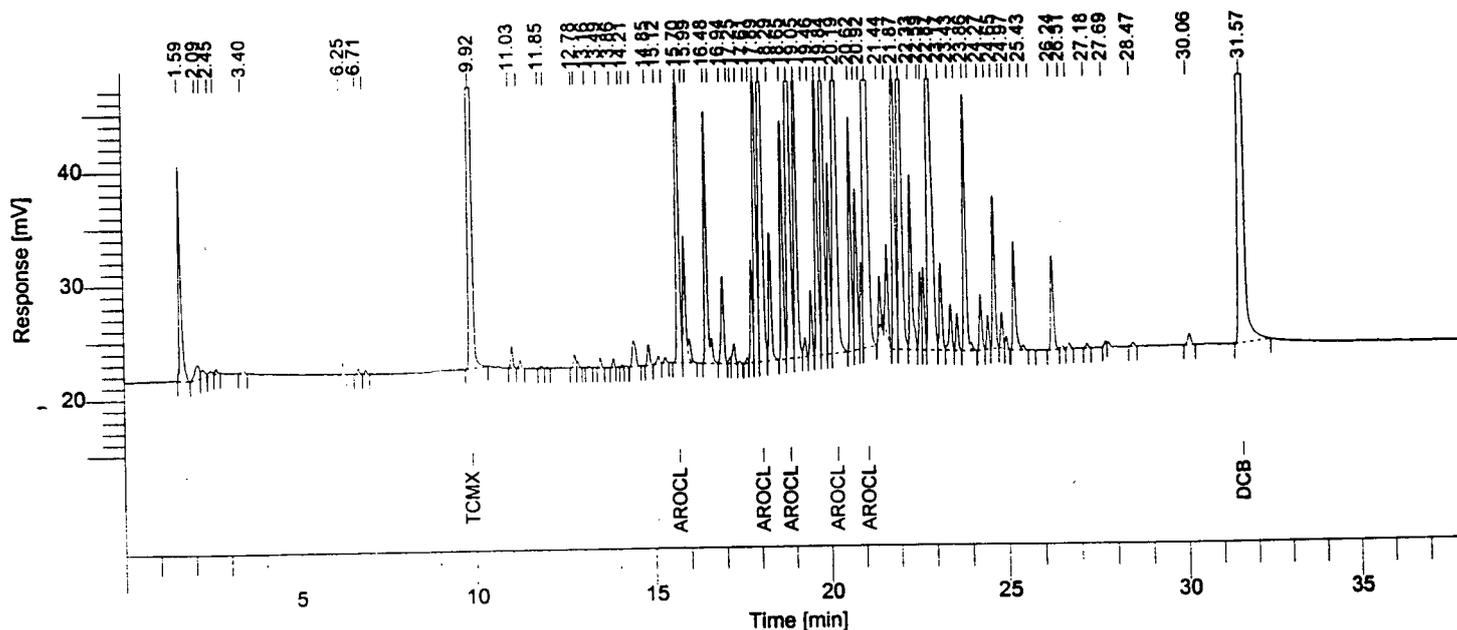
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
22	15.70	Aroclor 1254-1	83602	0.3700
33	18.05	Aroclor 1254-2	145042	0.3754
36	18.85	Aroclor 1254-3	199156	0.3672
43	20.19	Aroclor 1254-4	209730	0.3841
47	21.09	Aroclor 1254-5	225278	0.3765

Software Version : 6.1.0.2:G07
 Operator : PFALZERJ
 Sample Number : 012
 AutoSampler : BUILT-IN
 Instrument Name : HP68901
 Instrument Serial # : US00009536
 Delay Time : 0.00 min
 Sampling Rate : 5.0000 pts/s
 Volume Injected : 1.000000 ul
 Sample Amount : 1.0000
 Data Acquisition Time : 11/25/98 12:16:11 AM

Date : 11/25/98 10:10:12 AM
 Sample Name : 1.0UG/ML AR1254
 Study : ICAL
 Rack/Vial : 1/12
 Channel : A
 A/D mV Range : 1000
 End Time : 37.97 min

Area Reject : 100.000000
 Dilution Factor : 1.00
 Cycle : 12

Raw Data File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_012.raw
 Result File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_012.rst
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 Proc Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1254_1124.mth
 Calib Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1254_1124.mth
 Sequence File : \\gcsrv1\TCData\HP68901\NOV\11-24\681_1124r.seq



GC PCB Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
10	9.92	TCMX	722268	0.1040
	20.19	AR1254	1936296	0.8422
81	31.57	DCB	640449	0.0887

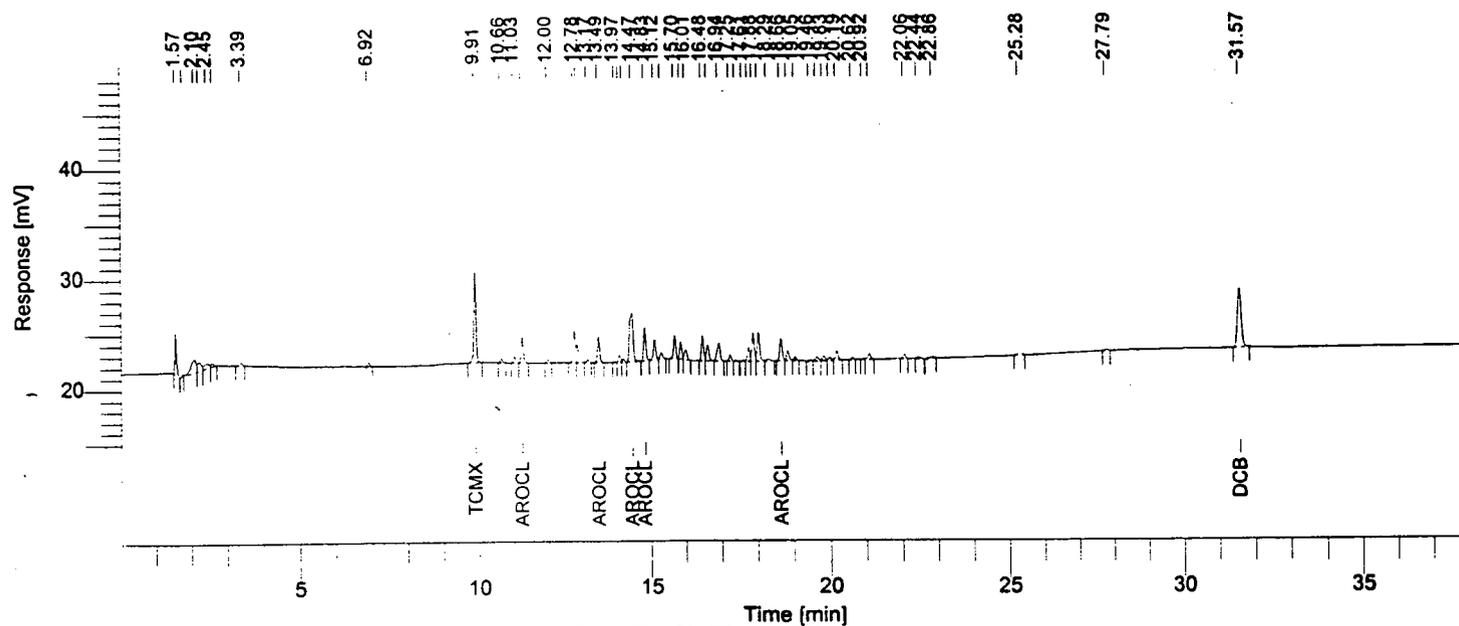
11/25/98 10:10:12 AM Result:
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Group Report For : AR1254

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
26	15.70	Aroclor 1254-1	186432	0.8251
38	18.05	Aroclor 1254-2	324895	0.8409
41	18.85	Aroclor 1254-3	442544	0.8160
48	20.19	Aroclor 1254-4	483331	0.8851
52	21.10	Aroclor 1254-5	499094	0.8342

Software Version	: 6.1.0.2:G07	Date	: 11/25/98 10:10:18 AM
Operator	: PFALZERJ	Sample Name	: 0.05UG/ML AR1242
Sample Number	: 013	Study	: ICAL
AutoSampler	: BUILT-IN	Rack/Vial	: 1/13
Instrument Name	: HP68901	Channel	: A
Instrument Serial #	: US00009536	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 37.98 min
Sampling Rate	: 5.0000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 13
Data Acquisition Time	: 11/25/98 12:59:46 AM		

Raw Data File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_013.raw
Result File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_013.rst
Inst Method : NolnstFile from \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_013.rst
Proc Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1242_1124.mth
Calib Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1242_1124.mth
Sequence File : \\gcsrv1\TCData\HP68901\NOV\11-24\681_1124r.seq



GC PCB Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
9	9.91	TCMX	34663	0.0048
	14.47	AR1242	77901	0.0538
54	31.57	DCB	40726	0.0055

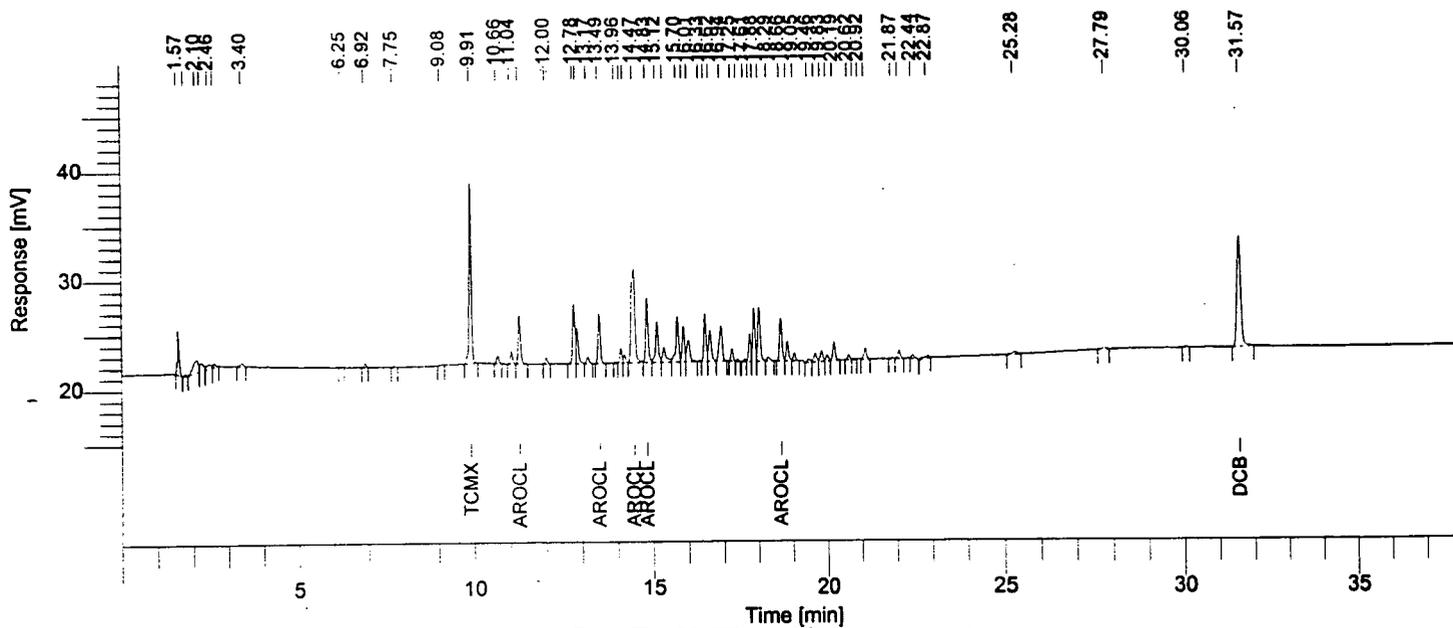
11/25/98 10:10:18 AM Result:
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Group Report For : AR1242

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
38	18.66	Aroclor 1242-5	10094	0.0532
12	11.26	Aroclor 1242-1	10558	0.0549
17	13.49	Aroclor 1242-2	10569	0.0537
21	14.47	Aroclor 1242-3	33072	0.0542
22	14.83	Aroclor 1242-4	13607	0.0524

Software Version	: 6.1.0.2:G07	Date	: 11/25/98 10:10:24 AM
Operator	: PFALZERJ	Sample Name	: 0.1UG/ML AR1242
Sample Number	: 014	Study	: ICAL
AutoSampler	: BUILT-IN	Rack/Vial	: 1/14
Instrument Name	: HP68901	Channel	: A
Instrument Serial #	: US00009536	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 37.99 min
Sampling Rate	: 5.0000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 14
Data Acquisition Time	: 11/25/98 01:42:45 AM		

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Result File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_014.rst
Inst Method : NoInstFile from \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_014.rst
Proc Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1242_1124.mth
Calib Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1242_1124.mth
Sequence File : \\gcsrv1\TCData\HP68901\NOV\11-24\681_1124r.seq



GC PCB Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
12	9.91	TCMX	69483	0.0096
	14.47	AR1242	153807	0.1062
61	31.57	DCB	77647	0.0106

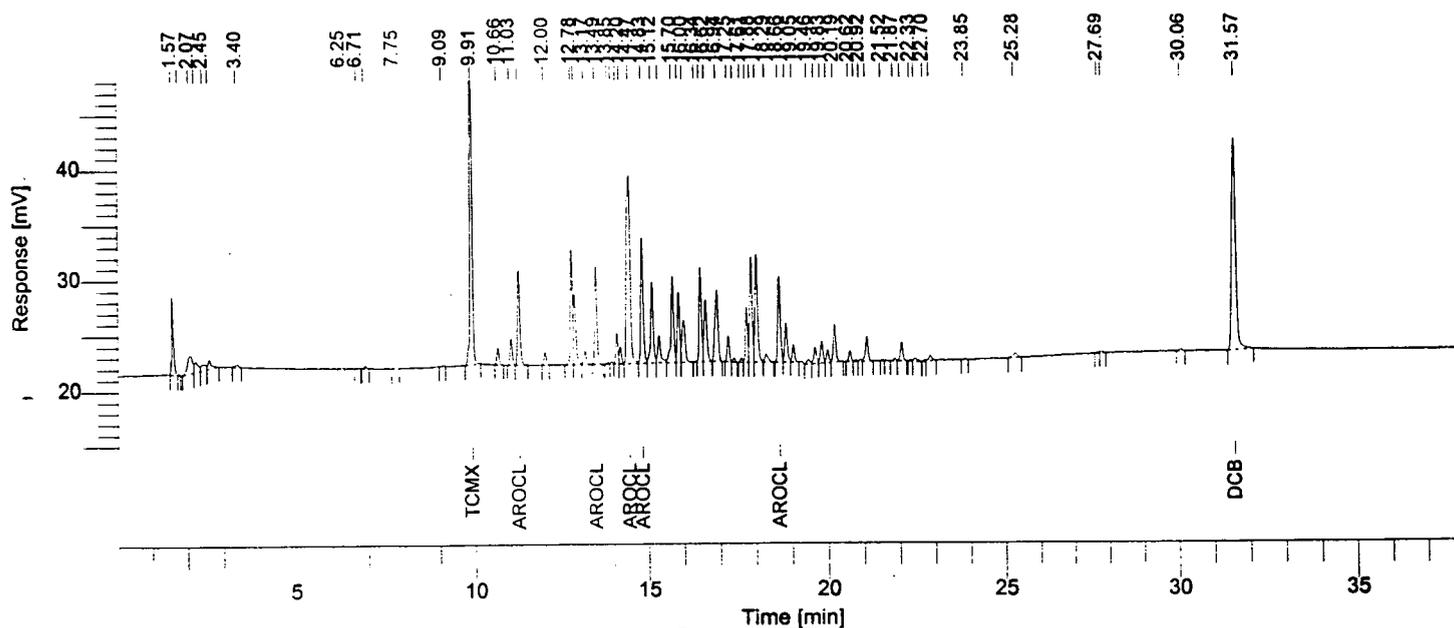
11/25/98 10:10:24 AM Result:
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Group Report For : AR1242

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
42	18.66	Aroclor 1242-5	19525	0.1029
15	11.26	Aroclor 1242-1	20486	0.1066
20	13.49	Aroclor 1242-2	20598	0.1046
24	14.47	Aroclor 1242-3	64834	0.1063
25	14.83	Aroclor 1242-4	28364	0.1092

Software Version	: 6.1.0.2:G07	Date	: 11/25/98 10:10:30 AM
Operator	: PFALZERJ	Sample Name	: 0.2UG/ML AR1242
Sample Number	: 015	Study	: ICAL
AutoSampler	: BUILT-IN	Rack/Vial	: 1/15
Instrument Name	: HP68901	Channel	: A
Instrument Serial #	: US00009536	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 37.97 min
Sampling Rate	: 5.0000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 15
Data Acquisition Time	: 11/25/98 02:26:29 AM		

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Inst Method : NoInstFile from \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_015.rst
Proc Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1242_1124.mth
Calib Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1242_1124.mth
Sequence File : \\gcsrv1\TCData\HP68901\NOV\11-24\681_1124r.seq



GC PCB Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
13	9.91	TCMX	150143	0.0208
	14.47	AR1242	305252	0.2108
68	31.57	DCB	151723	0.0206

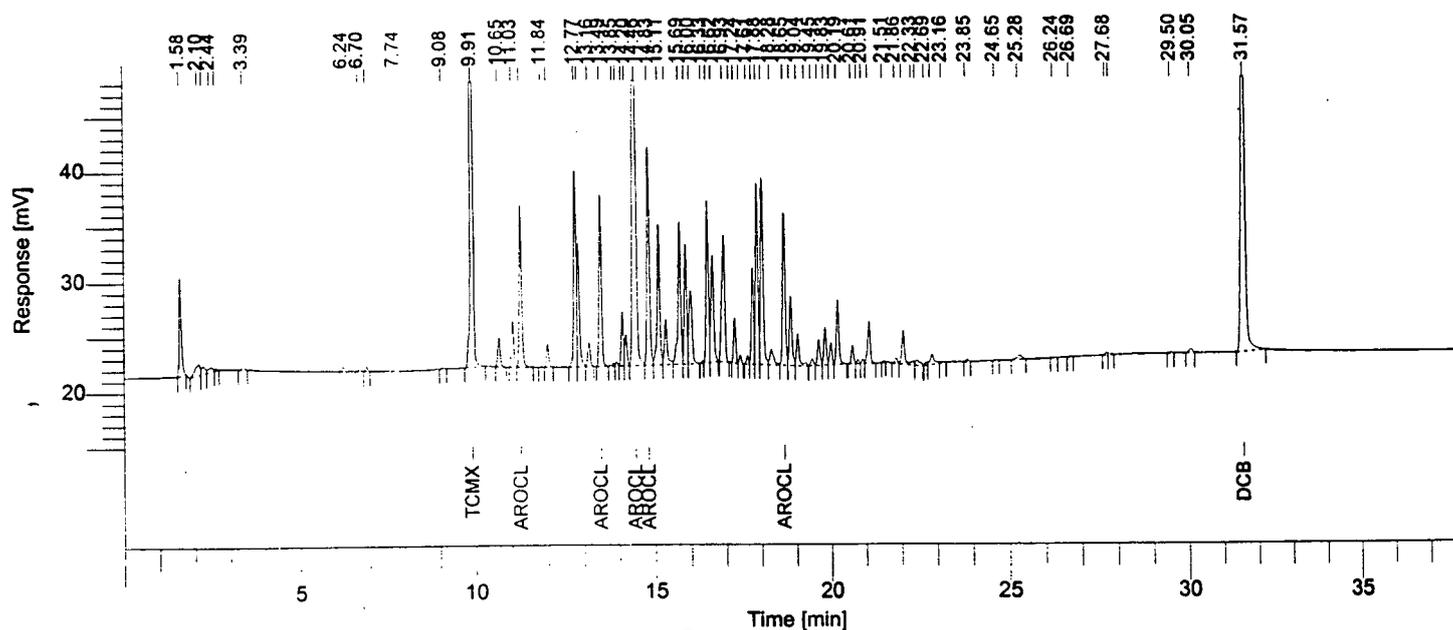
11/25/98 10:10:30 AM Result:
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Group Report For : AR1242

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
44	18.66	Aroclor 1242-5	39445	0.2079
16	11.26	Aroclor 1242-1	40632	0.2114
21	13.49	Aroclor 1242-2	41395	0.2103
26	14.47	Aroclor 1242-3	128294	0.2104
27	14.83	Aroclor 1242-4	55485	0.2136

Software Version	: 6.1.0.2:G07	Date	: 11/25/98 10:10:39 AM
Operator	: PFALZERJ	Sample Name	: 0.4UG/ML AR1242
Sample Number	: 016	Study	: ICAL
AutoSampler	: BUILT-IN	Rack/Vial	: 1/16
Instrument Name	: HP68901	Channel	: A
Instrument Serial #	: US00009536	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 37.95 min
Sampling Rate	: 5.0000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 16
Data Acquisition Time	: 11/25/98 03:10:06 AM		

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Proc Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1242_1124.mth
Calib Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1242_1124.mth
Sequence File : \\gcsrv1\TCData\HP68901\NOV\11-24\681_1124r.seq



GC PCB Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
12	9.91	TCMX	289887	0.0401
	14.46	AR1242	541261	0.3737
75	31.57	DCB	270948	0.0368

11/25/98 10:10:39 AM Result:

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Group Report For : AR1242

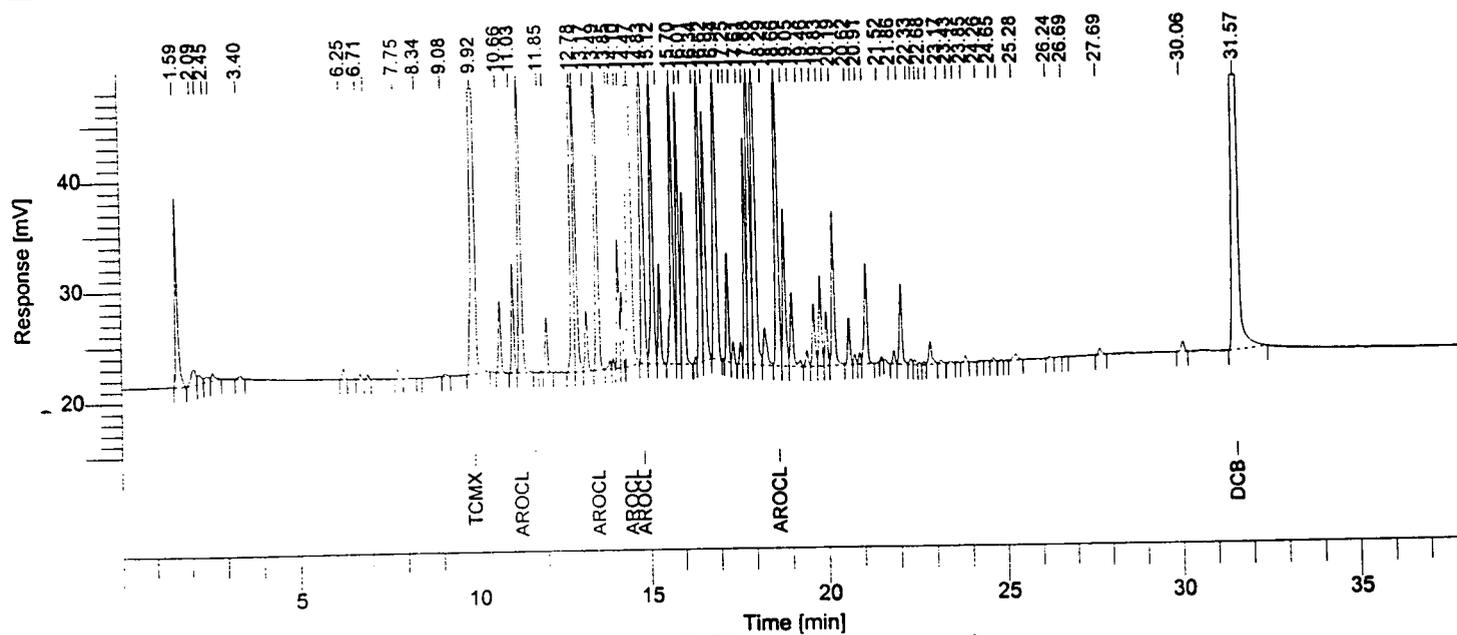
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
45	18.65	Aroclor 1242-5	71917	0.3790
15	11.25	Aroclor 1242-1	71418	0.3716
21	13.49	Aroclor 1242-2	73739	0.3746
26	14.46	Aroclor 1242-3	227024	0.3723
27	14.83	Aroclor 1242-4	97162	0.3741

Software Version : 6.1.0.2:G07
 Operator : PFALZERJ
 Sample Number : 017
 AutoSampler : BUILT-IN
 Instrument Name : HP68901
 Instrument Serial # : US00009536
 Delay Time : 0.00 min
 Sampling Rate : 5.0000 pts/s
 Volume Injected : 1.000000 ul
 Sample Amount : 1.0000
 Data Acquisition Time : 11/25/98 03:53:45 AM

Date : 11/25/98 10:10:47 AM
 Sample Name : 1.0UG/ML AR1242
 Study : ICAL
 Rack/Vial : 1/17
 Channel : A
 A/D mV Range : 1000
 End Time : 37.95 min

Area Reject : 100.000000
 Dilution Factor : 1.00
 Cycle : 17

Raw Data File : \\gcsrv1\TCDData\HP68901\NOV\11-24\681A_981124320R_017.raw
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 Calib Method : \\gcsrv1\TCDData\hp68901\methods\nov\11-24\681a_ar1242_1124.mth
 Sequence File : \\gcsrv1\TCDData\HP68901\NOV\11-24\681_1124r.seq



GC PCB Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
13	9.92	TCMX	751935	0.1040
	14.47	AR1242	1266184	0.8742
79	31.57	DCB	652144	0.0886

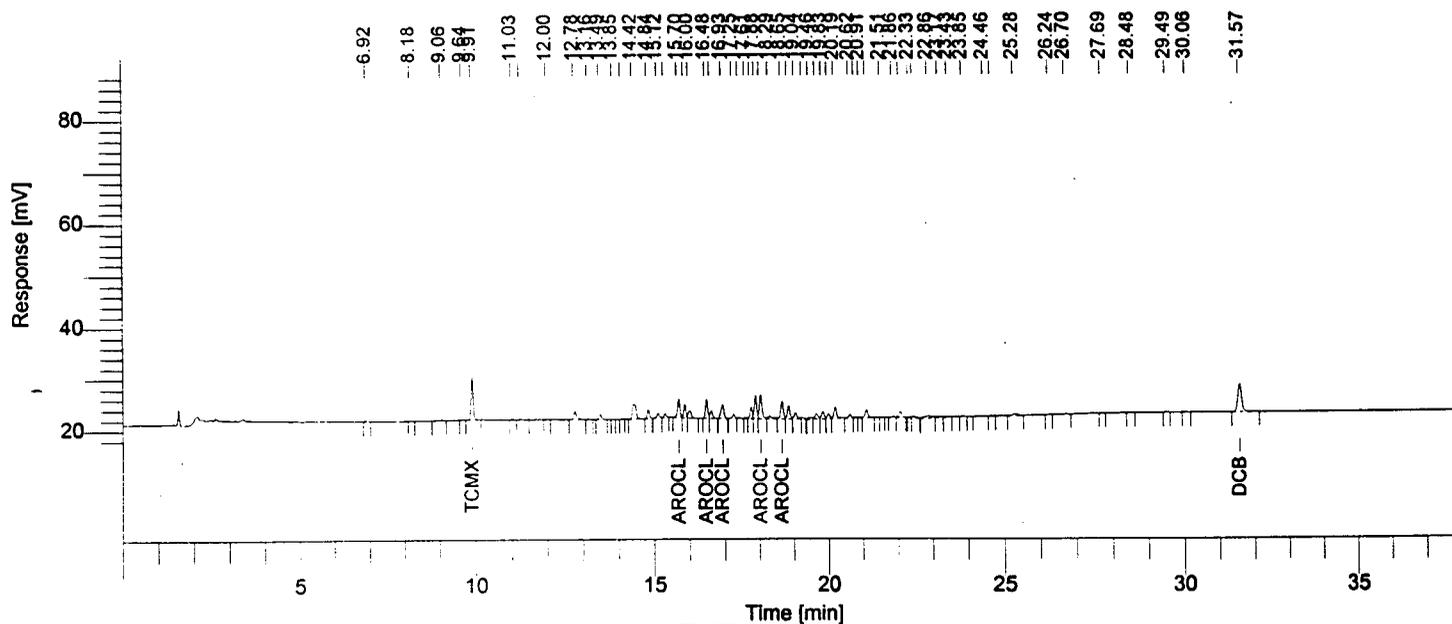
11/25/98 10:10:47 AM Result:
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Group Report For : AR1242

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
46	18.66	Aroclor 1242-5	174575	0.9201
16	11.26	Aroclor 1242-1	163220	0.8493
22	13.49	Aroclor 1242-2	175646	0.8922
27	14.47	Aroclor 1242-3	530234	0.8695
28	14.83	Aroclor 1242-4	222509	0.8567

Software Version	: 6.1.0.2:G07	Date	: 11/25/98 10:10:53 AM
Operator	: PFALZERJ	Sample Name	: 0.05UG/ML AR1248
Sample Number	: 018	Study	: ICAL
AutoSampler	: BUILT-IN	Rack/Vial	: 1/18
Instrument Name	: HP68901	Channel	: A
Instrument Serial #	: US00009536	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 37.97 min
Sampling Rate	: 5.0000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 µL	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 18
Data Acquisition Time	: 11/25/98 04:37:22 AM		

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 Proc Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1248_1124.mth
 Calib Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1248_1124.mth
 Sequence File : \\gcsrv1\TCData\HP68901\NOV\11-24\681_1124r.seq



GC PCB Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
5	9.91	TCMX	33045	0.0048
	18.03	AR1248	93428	0.0543
62	31.57	DCB	42367	0.0056

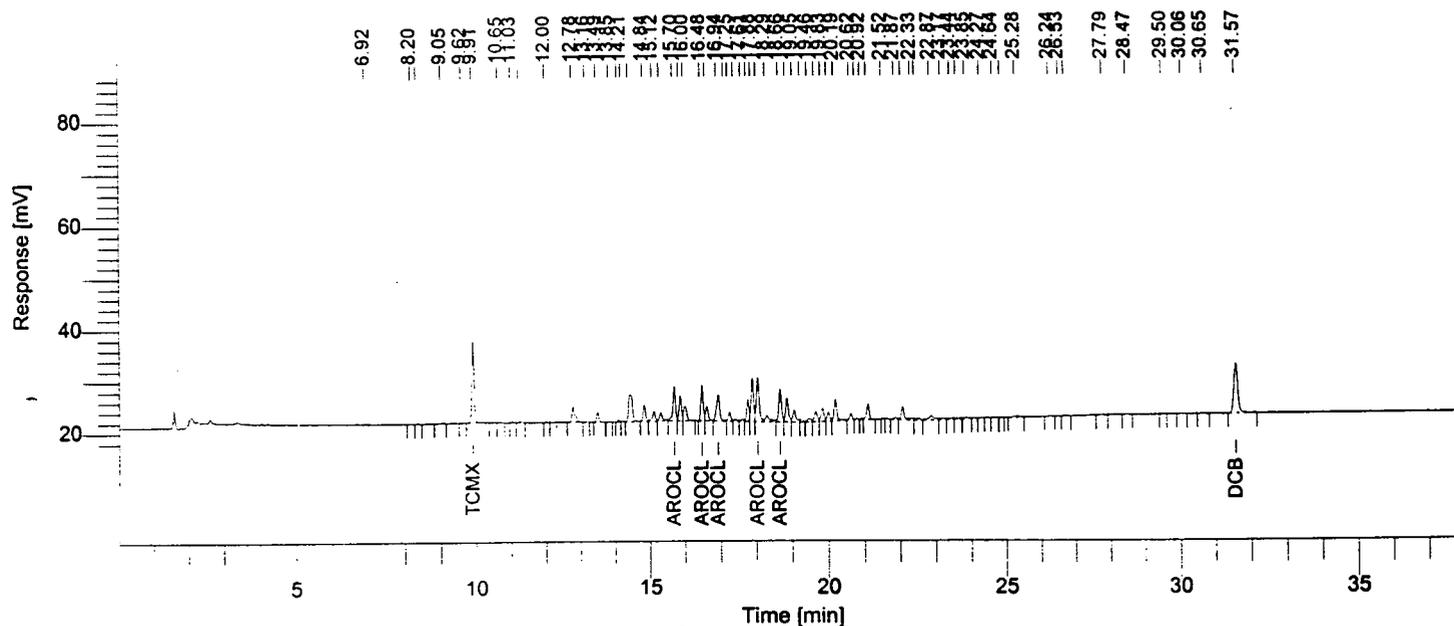
11/25/98 10:10:53 AM Result:
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Group Report For : AR1248

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
18	15.70	AROCLOR-1248	17037	0.0506
21	16.48	AROCLOR-1248-2	16869	0.0546
23	16.93	AROCLOR-1248-3	15765	0.0515
29	18.03	AROCLOR-1248-4	24945	0.0565
31	18.65	AROCLOR-1248-5	18811	0.0573

Software Version	: 6.1.0.2:G07	Date	: 11/25/98 10:10:58 AM
Operator	: PFALZERJ	Sample Name	: 0.1UG/ML AR1248
Sample Number	: 019	Study	: ICAL
AutoSampler	: BUILT-IN	Rack/Vial	: 1/19
Instrument Name	: HP68901	Channel	: A
Instrument Serial #	: US00009536	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 37.98 min
Sampling Rate	: 5.0000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 µL	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 19
Data Acquisition Time	: 11/25/98 05:20:57 AM		

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 Proc Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1248_1124.mth
 Calib Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1248_1124.mth
 Sequence File : \\gcsrv1\TCData\HP68901\NOV\11-24\681_1124r.seq



GC PCB Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
6	9.91	TCMX	65185	0.0094
	18.03	AR1248	177914	0.1033
70	31.57	DCB	75678	0.0100

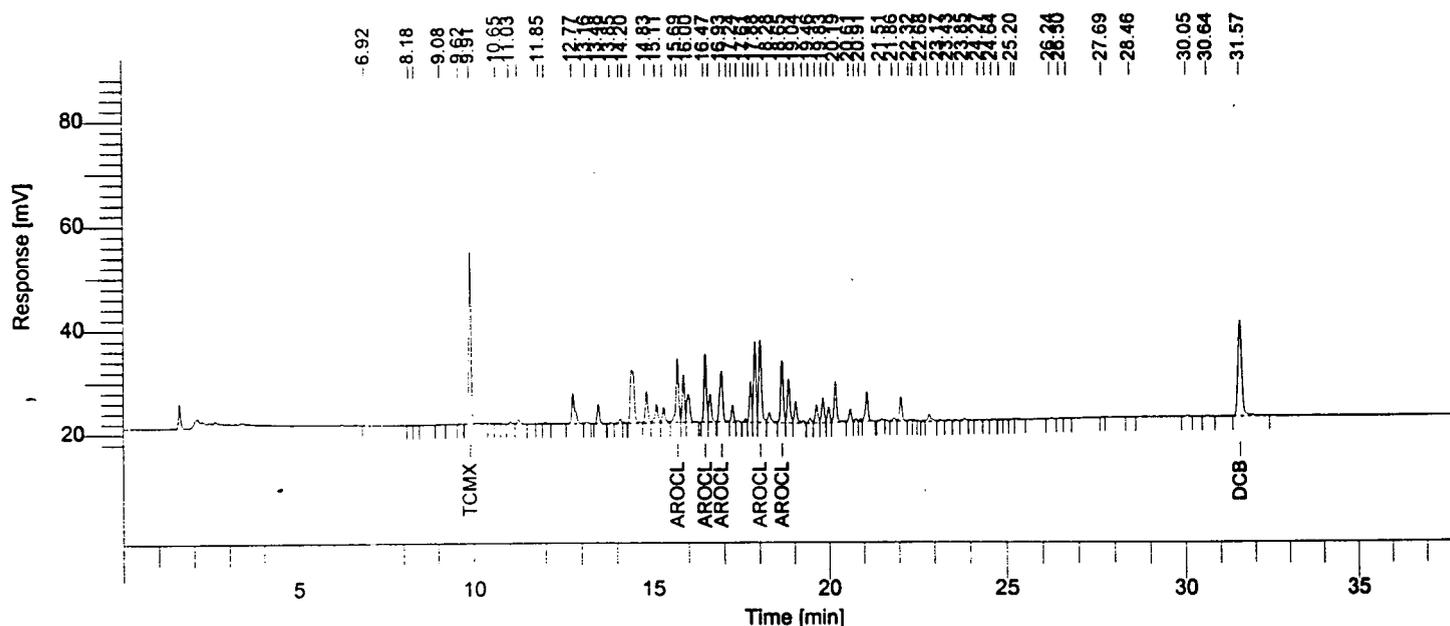
11/25/98 10:10:58 AM Result:
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Group Report For : AR1248

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
21	15.70	AROCLOR-1248	34478	0.1025
24	16.48	AROCLOR-1248-2	31462	0.1017
26	16.94	AROCLOR-1248-3	31211	0.1020
33	18.03	AROCLOR-1248-4	46231	0.1047
35	18.66	AROCLOR-1248-5	34533	0.1051

Software Version	: 6.1.0.2:G07	Date	: 11/25/98 10:11:04 AM
Operator	: PFALZERJ	Sample Name	: 0.2UG/ML AR1248
Sample Number	: 020	Study	: ICAL
AutoSampler	: BUILT-IN	Rack/Vial	: 1/20
Instrument Name	: HP68901	Channel	: A
Instrument Serial #	: US00009536	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 37.97 min
Sampling Rate	: 5.0000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 µL	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 20
Data Acquisition Time	: 11/25/98 06:03:58 AM		

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Proc Method : \\gcsrv1\TCDData\hp68901\methods\nov\11-24\681a_ar1248_1124.mth
Calib Method : \\gcsrv1\TCDData\hp68901\methods\nov\11-24\681a_ar1248_1124.mth
Sequence File : \\gcsrv1\TCDData\HP68901\NOV\11-24\681_1124r.seq



GC PCB Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
6	9.91	TCMX	138094	0.0200
	18.03	AR1248	335159	0.1947
73	31.57	DCB	147706	0.0196

11/25/98 10:11:04 AM Result:
\\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_020.rst

Group Report For : AR1248

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
22	15.69	AROCLOR-1248	64666	0.1922
25	16.47	AROCLOR-1248-2	61472	0.1988
27	16.93	AROCLOR-1248-3	59374	0.1941
34	18.03	AROCLOR-1248-4	86575	0.1960
36	18.65	AROCLOR-1248-5	63073	0.1920

```

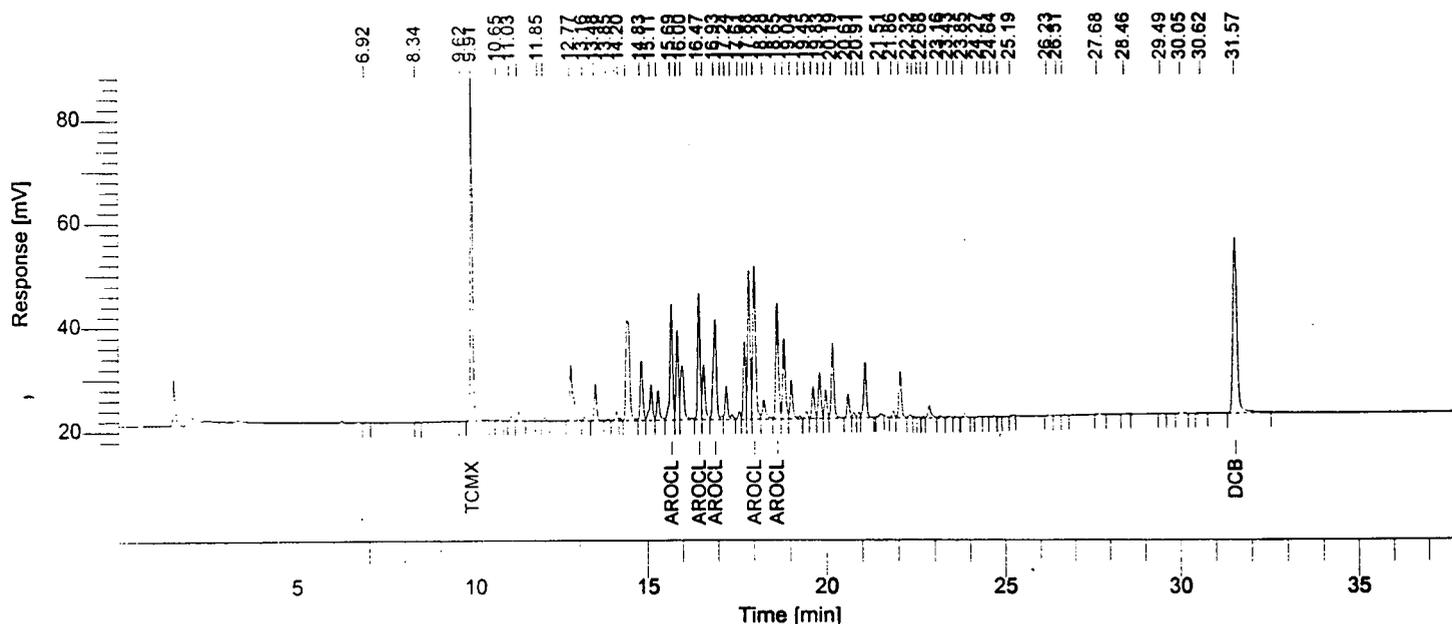
Software Version   : 6.1.0.2:G07
Operator          : PFALZERJ
Sample Number     : 021
AutoSampler      : BUILT-IN
Instrument Name   : HP68901
Instrument Serial # : US00009536
Delay Time       : 0.00 min
Sampling Rate    : 5.0000 pts/s
Volume Injected  : 1.000000 µL
Sample Amount    : 1.0000
Data Acquisition Time : 11/25/98 06:47:38 AM

Date              : 11/25/98 05:27:05 PM
Sample Name      : 0.4UG/ML AR1248
Study           : ICAL
Rack/Vial       : 1/21
Channel        : A
A/D mV Range   : 1000
End Time       : 37.94 min

Area Reject     : 100.000000
Dilution Factor : 1.00
Cycle          : 21
    
```

```

Raw Data File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_021.raw
Result File   : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_021.rst
Inst Method  : NoInstFile from \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_021.rst
Proc Method  : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1248_1124.mth
Calib Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1248_1124.mth
Sequence File : \\gcsrv1\TCData\HP68901\NOV\11-24\681_1124r.seq
    
```



GC PCB Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
4	9.91	TCMX	282178	0.0411
	18.03	AR1248	641393	0.3823
72	31.57	DCB	277065	0.0375

11/25/98 05:27:05 PM Result:

\\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_021.rst

Group Report For : AR1248

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
20	15.69	AROCLOR-1248	119626	0.3818
23	16.47	AROCLOR-1248-2	120142	0.3927
25	16.93	AROCLOR-1248-3	121065	0.4004
32	18.03	AROCLOR-1248-4	162231	0.3739
34	18.65	AROCLOR-1248-5	118329	0.3669

11/25/98 10:11:10 AM Result:

\\gcsrv1\TCDData\HP68901\NOV\11-24\681A_981124320R_022.rst

Group Report For : AR1248

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
23	15.70	AROCLOR-1248	258591	0.7687
26	16.48	AROCLOR-1248-2	269847	0.8727
28	16.94	AROCLOR-1248-3	284685	0.9308
35	18.03	AROCLOR-1248-4	369648	0.8370
37	18.66	AROCLOR-1248-5	279606	0.8513

```

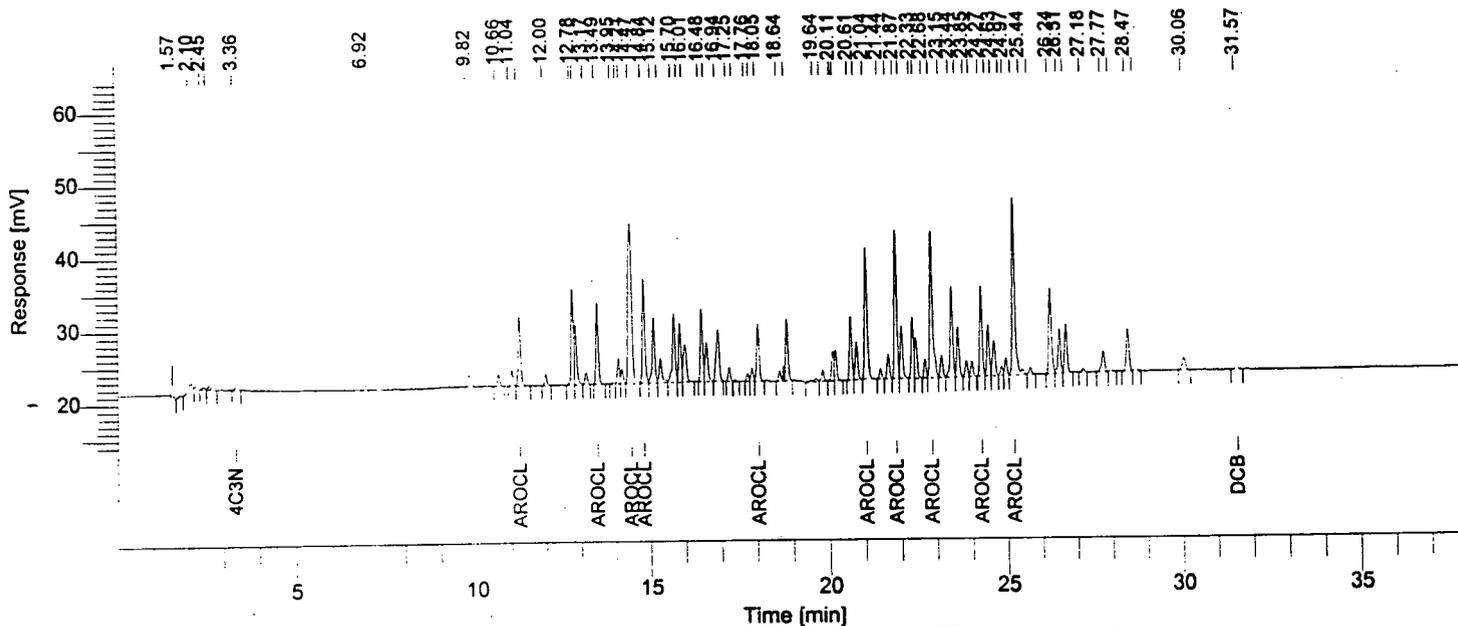
Software Version   : 6.1.0.2:G07
Operator          : PFALZERJ
Sample Number     : 023
AutoSampler       : BUILT-IN
Instrument Name    : HP68901
Instrument Serial # : US00009536
Delay Time        : 0.00 min
Sampling Rate     : 5.0000 pts/s
Volume Injected   : 1.000000 ul
Sample Amount     : 1.0000
Data Acquisition Time : 11/25/98 08:14:15 AM

Date              : 11/25/98 10:11:17 AM
Sample Name       : AR1660 REF
Study             :
Rack/Vial         : 1/23
Channel           : A
A/D mV Range      : 1000
End Time          : 37.96 min

Area Reject       : 100.000000
Dilution Factor   : 1.00
Cycle             : 23
    
```

```

Raw Data File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_023.raw
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Proc Method   : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1660_1124.mth
Calib Method  : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1660_1124.mth
Sequence File : \\gcsrv1\TCData\HP68901\NOV\11-24\681_1124r.seq
    
```



GC Pcb Continuing Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
6	3.36	4C3N	2440	-0.0075	0.050	
	14.47	AR1016	370566	0.2087	0.200	4.3
	25.20	AR1260	491566	0.1965	0.200	-1.7
74	31.57	DCB	2183	0.0003	0.020	-98.5
			866755	0.3980		

Handwritten signature

11/25/98 10:11:17 AM Result:
 \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_023.rst

Group Report For : AR1016

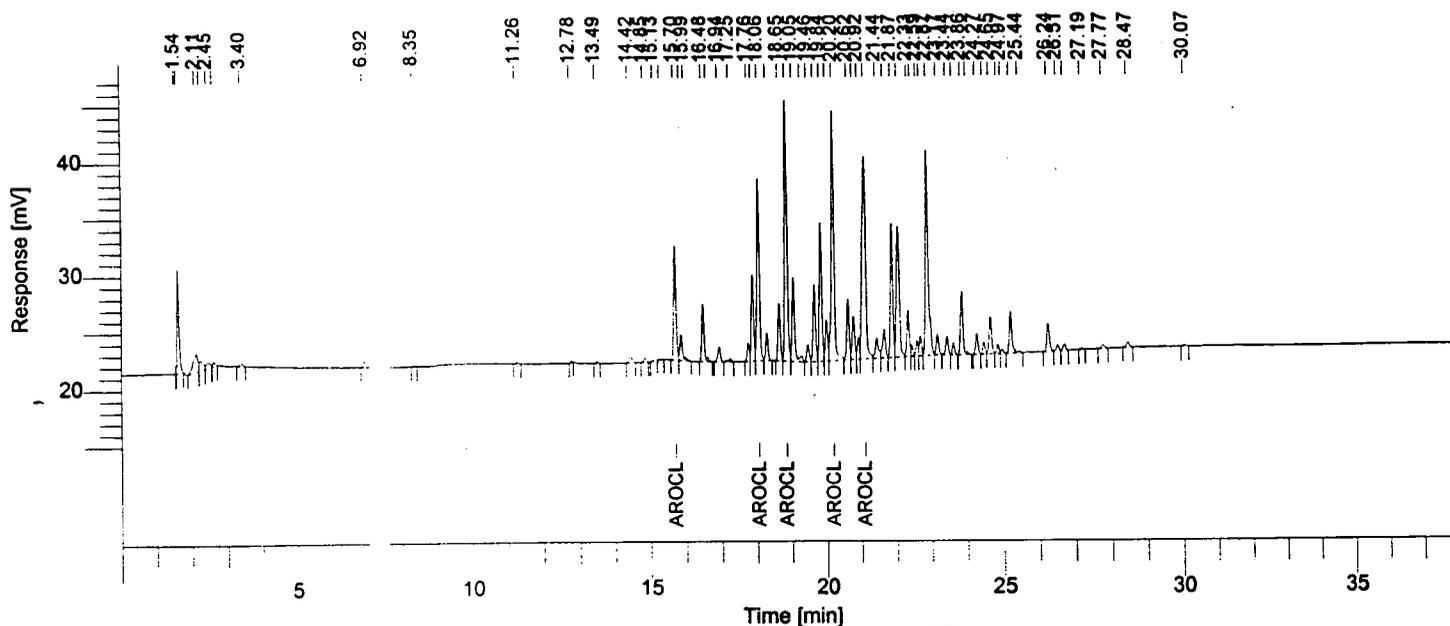
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
11	11.26	Aroclor 1016-1	45487	0.2088	0.000	----
16	13.49	Aroclor 1016-2	52380	0.2056	0.000	----
20	14.47	Aroclor 1016-3	164091	0.2098	0.000	----
21	14.84	Aroclor 1016-4	70360	0.2143	0.000	----
34	18.05	Aroclor 1016-5	38247	0.1982	0.000	----
			370566	1.0368		

Group Report For : AR1260

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
43	21.04	Aroclor 1260-1	93388	0.1969	0.000	----
46	21.87	Aroclor 1260-2	97728	0.1961	0.000	----
51	22.87	Aroclor 1260-3	113844	0.1945	0.000	----
57	24.27	Aroclor 1260-4	59364	0.1969	0.000	----
62	25.20	Aroclor 1260-5	127243	0.1983	0.000	----
			491566	0.9827		

Software Version	: 6.1.0.2:G07	Date	: 11/25/98 10:11:24 AM
Operator	: PFALZERJ	Sample Name	: AR1254 REF
Sample Number	: 024	Study	:
AutoSampler	: BUILT-IN	Rack/Vial	: 1/24
Instrument Name	: HP68901	Channel	: A
Instrument Serial #	: US00009536	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 37.97 min
Sampling Rate	: 5.0000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 24
Data Acquisition Time	: 11/25/98 08:57:10 AM		

Raw Data File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_024.raw
 Result File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_024.rst
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 Calib Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1254_1124.mth
 Sequence File : \\gcsrv1\TCData\HP68901\NOV\11-24\681_1124r.seq



GC Pcb Continuing Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
	18.85	AR1254	487176	0.2119	0.200	6.0
			487176	0.2119		

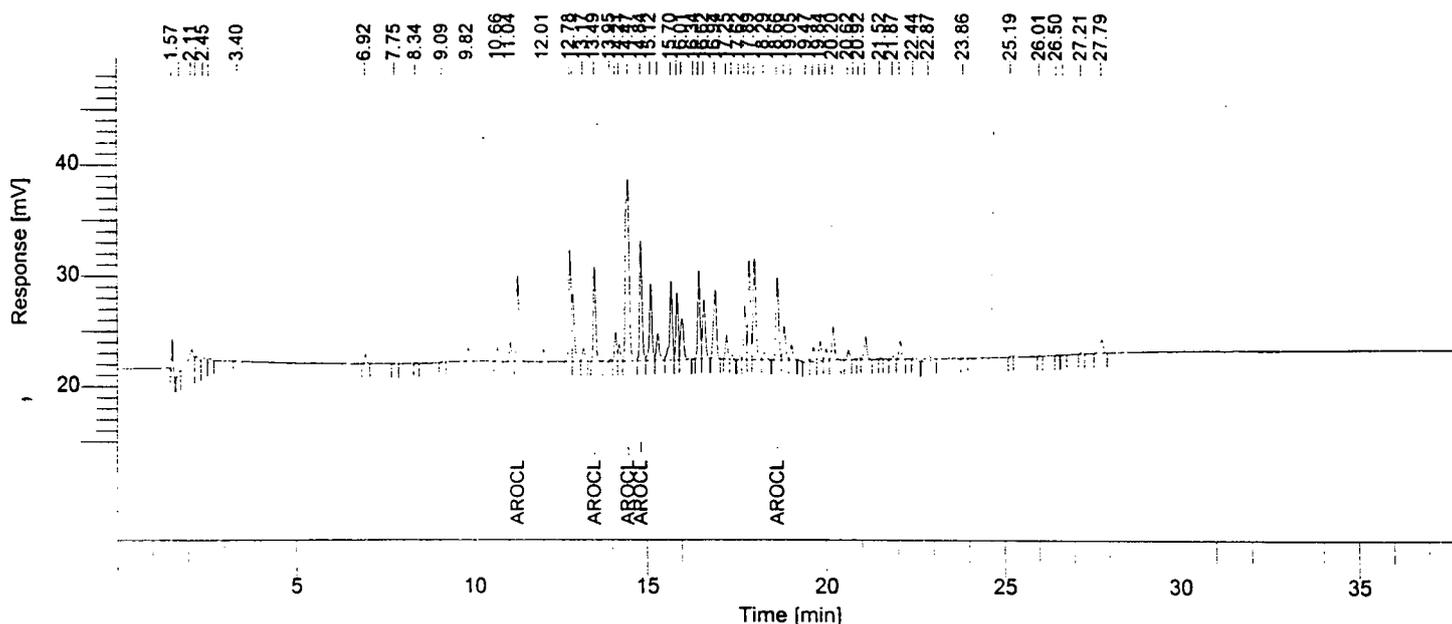
11/25/98 10:11:24 AM Result:
\\gcsv1\TCDData\HP68901\NOV\11-24\681A_981124320R_024.rst

Group Report For : AR1254

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
17	15.70	Aroclor 1254-1	46399	0.2053	0.000	----
26	18.06	Aroclor 1254-2	79909	0.2068	0.000	----
29	18.85	Aroclor 1254-3	113536	0.2093	0.000	----
36	20.20	Aroclor 1254-4	118117	0.2163	0.000	----
40	21.10	Aroclor 1254-5	129215	0.2160	0.000	----
			487176	1.0538		

Software Version	: 6.1.0.2:G07	Date	: 11/30/98 09:25:11 AM
Operator	: PFALZERJ	Sample Name	: AR1242 REF
Sample Number	: 025	Study	:
AutoSampler	: BUILT-IN	Rack/Vial	: 1/25
Instrument Name	: HP68901	Channel	: A
Instrument Serial #	: US00009536	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 37.97 min
Sampling Rate	: 5.0000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 25
Data Acquisition Time	: 11/25/98 09:40:10 AM		

Raw Data File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_025.raw
 Result File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_025.rst
 Inst Method : NoInstFile from \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_025.rst
 Proc Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1242_1124.mth
 Calib Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1242_1124.mth
 Sequence File : \\gcsrv1\TCData\HP68901\NOV\11-24\681_1124r.seq



GC Pcb Continuing Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
	14.47	AR1242	292749	0.2021	0.200	1.1
			292749	0.2021		

11/30/98 09:25:11 AM Result:

\\gcsrv1\TCDData\HP68901\NOV\11-24\681A_981124320R_025.rst

Group Report For : AR1242

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
42	18.66	Aroclor 1242-5	38250	0.2016	0.000	----
15	11.26	Aroclor 1242-1	36851	0.1917	0.000	----
20	13.49	Aroclor 1242-2	39935	0.2029	0.000	----
24	14.47	Aroclor 1242-3	124200	0.2037	0.000	----
25	14.84	Aroclor 1242-4	53512	0.2060	0.000	----
			292749	1.0059		

```

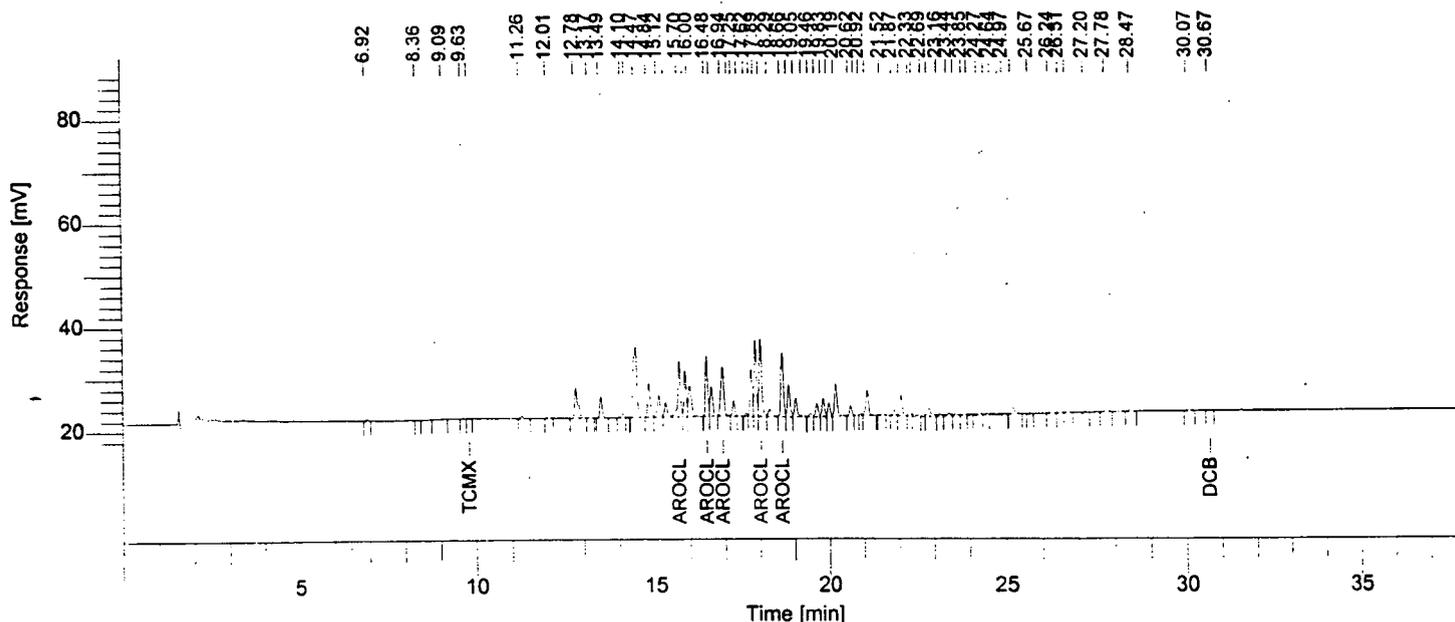
Software Version : 6.1.0.2:G07
Operator : PFALZERJ
Sample Number : 026
AutoSampler : BUILT-IN
Instrument Name : HP68901
Instrument Serial # : US00009536
Delay Time : 0.00 min
Sampling Rate : 5.0000 pts/s
Volume Injected : 1.000000 µL
Sample Amount : 1.0000
Data Acquisition Time : 11/25/98 10:23:55 AM

Date : 11/30/98 09:25:19 AM
Sample Name : AR1248 REF
Study :
Rack/Vial : 1/26
Channel : A
A/D mV Range : 1000
End Time : 37.95 min

Area Reject : 100.000000
Dilution Factor : 1.00
Cycle : 26
    
```

```

Raw Data File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_026.raw
Result File : \\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_026.rst
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Proc Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1248_1124.mth
Calib Method : \\gcsrv1\TCData\hp68901\methods\nov\11-24\681a_ar1248_1124.mth
Sequence File : \\gcsrv1\TCData\HP68901\NOV\11-24\681_1124r.seq
    
```



GC Pcb Continuing Report

HP6890 1A RTX-5 30m 0.53mm 2ul Inj Method 8082

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
5	9.81	TCMX	305	0.0000	0.000	----
	18.03	AR1248	312097	0.1860	0.000	----
70	30.67	DCB	282	0.0000	0.000	----
			312684	0.1861		

7.0%
2 11/30/98

11/30/98 09:25:19 AM Result:

\\gcsrv1\TCData\HP68901\NOV\11-24\681A_981124320R_026.rst

Group Report For : AR1248

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
17	15.70	AROCLOR-1248	56176	0.1793	0.000	----
20	16.48	AROCLOR-1248-2	54228	0.1773	0.000	----
22	16.94	AROCLOR-1248-3	58401	0.1932	0.000	----
29	18.03	AROCLOR-1248-4	78955	0.1820	0.000	----
31	18.66	AROCLOR-1248-5	64337	0.1995	0.000	----
			<u>312097</u>	<u>0.9312</u>		

E. & E. Inc. ASC GC Lab Instrument Runlog

Notebook # 1239 Page # 180

Method: GC.14(8081) GC.72(8081A) GC.73(8082)

Inst.ID: MS79041

Operator: R. Schmitt Init: RS Date: 11/13/98

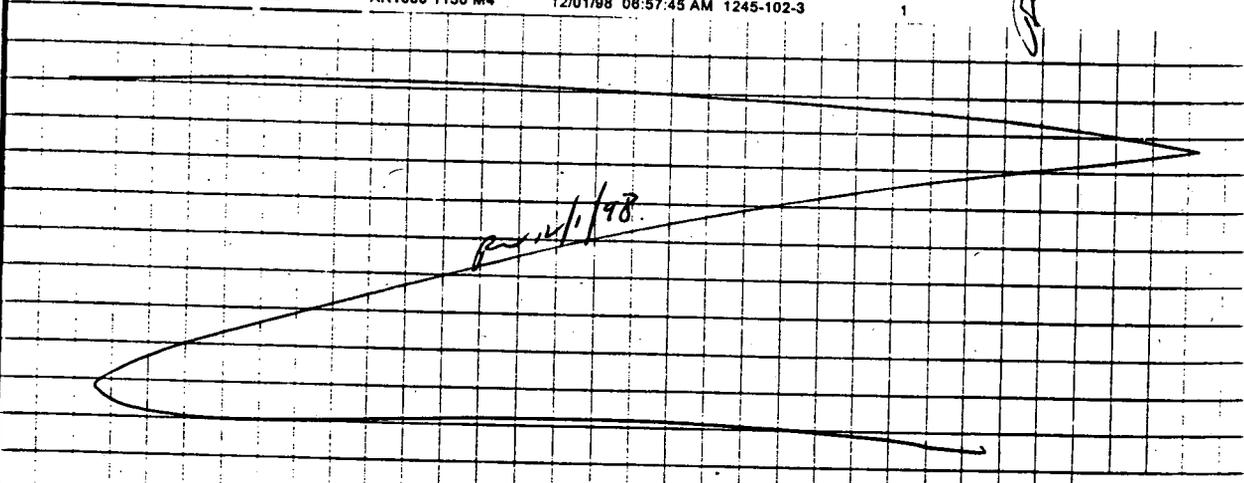
Oven Prog: 150C, 1 min, 5C/min => 280C, 11 min
Ini Temp: 200C Det Temp: 300C Detector A,B ECD,ECD
Column A/B: RTX5/RTX35 30M 0.53mm 1.0um film

9802.017
Water
PCB's

File Name	Job Number	Sample Name	Date of Injection	Time of Injection	COMMENTS	008 DIL
hpt1 981130370r 001.rst		HEXANE	11/30/98	01:40:39 PM	BAKER L20317	1
hpt1 981130370r 002.rst	CCV	AR1680 1130 M1	11/30/98	02:21:38 PM	1245-102-3	1
hpt1 981130370r 003.rst	CCV	AR1254 1130 M1	11/30/98	03:02:34 PM	1245-98-2	1
hpt1 981130370r 004.rst	CCV	AR1242-1130, M1	11/30/98	03:43:35 PM	1245-80-2	1
hpt1 981130370r 005.rst	9803.0177.030	1352-040-1	11/30/98	04:38:17 PM	HG	1
hpt1 981130370r 008.rst	9803.0177.030	1352-040-2	11/30/98	05:19:14 PM	HG	1
hpt1 981130370r 007.rst	9803.0177.030	1352-040-3	11/30/98	08:00:16 PM	HG	1
hpt1 981130370r 008.rst	9803.017	19597	11/30/98	08:41:11 PM	HG	1
hpt1 981130370r 009.rst	9803.030	19718	11/30/98	07:22:11 PM	HG	1
hpt1 981130370r 010.rst	9803.050	1352-044-1	11/30/98	08:03:05 PM	HG	1
hpt1 981130370r 011.rst	9803.050	1352-044-2	11/30/98	08:44:03 PM	HG	1
hpt1 981130370r 012.rst	9803.050	1352-044-3	11/30/98	09:25:01 PM	HG	1
hpt1 981130370r 013.rst		HEXANE	11/30/98	10:05:58 PM	BAKER L20317	1
hpt1 981130370r 014.rst	CCV	AR1680 1130 M2	11/30/98	10:46:53 PM	1245-102-3	1
hpt1 981130370r 015.rst	9803.050	19817	11/30/98	11:27:47 PM	HG	1
hpt1 981130370r 016.rst	9803.050	19818	12/01/98	12:08:41 AM	HG	1
hpt1 981130370r 017.rst	9803.050	19818 3220	12/01/98	12:49:38 AM	HG	1
hpt1 981130370r 018.rst	9803.050	19818 3230	12/01/98	01:30:32 AM	HG	1
hpt1 981130370r 019.rst	9803.050	19819	12/01/98	02:11:26 AM	HG	1
hpt1 981130370r 020.rst	9803.050	19820	12/01/98	02:52:20 AM	HG	1
hpt1 981130370r 021.rst	9803.050	19821	12/01/98	03:33:18 AM	HG	1
hpt1 981130370r 022.rst	9803.050	19822	12/01/98	04:14:12 AM	HG	1
hpt1 981130370r 023.rst	9803.050	19823	12/01/98	04:55:08 AM	HG	1
hpt1 981130370r 024.rst	9803.064	19909 5X	12/01/98	05:35:53 AM	HG. 200UL/ML	5
hpt1 981130370r 025.rst		HEXANE	12/01/98	06:16:51 AM	BAKER L20317	1
hpt1 981130370r 026.rst	CCV	AR1680 1130 M4	12/01/98	06:57:45 AM	1245-102-3	1

11/13/98

Richard L. Payne



Witnessed & Understood by me, <i>Richard L. Payne</i>	Date <u>12/1/98</u>	Invented by	Date
	Recorded by		

7A

CC

PCB CONTINUING CALIBRATION VERIFICATION

Lab Name: E & E INC.

Contract:

Instrument: HP58901 A

ICAL Date(s) Analyzed:

Column: RTX-5

11/24/98 to: 11/25/98

CCV ID: AR1660 1130 M1

Date/Time: 11/30/98 2:21 PM

COMPOUND	RT	INITIAL	WINDOW	Calc Amt.(ng)	Expected Amt.(ng)	% D
		From	To			
TCMX	8.93	13.36	13.46	0.0199	0.0200	-0.5
AR1016	13.41	10.19	10.33	0.1878	0.200	-6.1
AR1260	24.05	20.68	20.82	0.1727	0.200	-13.7
DCB	29.74	29.72	29.92	0.0190	0.0200	-5.0

Ave %D = 6.3

* Value >15.0% Difference

FORM VII PCB

7A

PCB CONTINUING CALIBRATION VERIFICATION

Lab Name: E & E INC.

Contract:

Instrument: HP58901 A

ICAL Date(s) Analyzed:

Column: RTX-5

11/25/98 to: 11/25/98

CCV ID: AR1254 1130 M1

Date/Time: 11/30/98 3:02 PM

COMPOUND	RT	INITIAL WINDOW		Calc Amt.(ng)	Expected Amt.(ng)	% D
		From	To			
AR1254	16.94	16.89	17.03	0.192	0.200	-4.0

* Value >15.0% Difference

FORM VII PCB

7A

PCB CONTINUING CALIBRATION VERIFICATION

Lab Name: E & E INC.

Contract:

Instrument: HP58901 A

ICAL Date(s) Analyzed:

Column: RTX-5

11/25/98 to: 11/25/98

CCV ID: AR1242 1130 M1

Date/Time: 11/30/98 3:43 PM

COMPOUND	RT	INITIAL WINDOW		Calc Amt.(ng)	Expected Amt.(ng)	% D
		From	To			
AR1242	12.43	12.40	12.50	0.194	0.200	-3.0

* Value >15.0% Difference

PCB Retention Times based on the first eluting Peak.

FORM VII PCB

7A

PCB CONTINUING CALIBRATION VERIFICATION

Lab Name: E & E INC.

Contract:

Instrument: HP58901 A

ICAL Date(s) Analyzed:

Column: RTX-5

11/24/98

to:

11/25/98

CCV ID: AR1660 1130 M2

Date/Time:

11/30/98

10:46 PM

COMPOUND	RT	INITIAL WINDOW		Calc Amt.(ng)	Expected Amt.(ng)	% D
		From	To			
TCMX	8.93	13.36	13.46	0.0210	0.0200	5.0
AR1016	13.41	10.19	10.33	0.1991	0.200	-0.5
AR1260	24.06	20.68	20.82	0.1915	0.200	-4.3
DCB	29.82	29.72	29.92	0.0201	0.0200	0.5

Ave %D = 2.6

* Value >15.0% Difference

FORM VII PCB

7A

PCB CONTINUING CALIBRATION VERIFICATION

Lab Name: E & E INC.

Contract:

Instrument: HP58901 A

ICAL Date(s) Analyzed:

Column: RTX-5

11/24/98

to:

11/25/98

CCV ID: AR1660 1130 M4

Date/Time:

12/1/98

6:57 AM

COMPOUND	RT	INITIAL WINDOW		Calc Amt.(ng)	Expected Amt.(ng)	% D
		From	To			
TCMX	8.94	13.36	13.46	0.0214	0.0200	7.0
AR1016	13.42	10.19	10.33	0.2045	0.200	2.2
AR1260	24.06	20.68	20.82	0.1908	0.200	-4.6
DCB	29.82	29.72	29.92	0.0206	0.0200	3.0

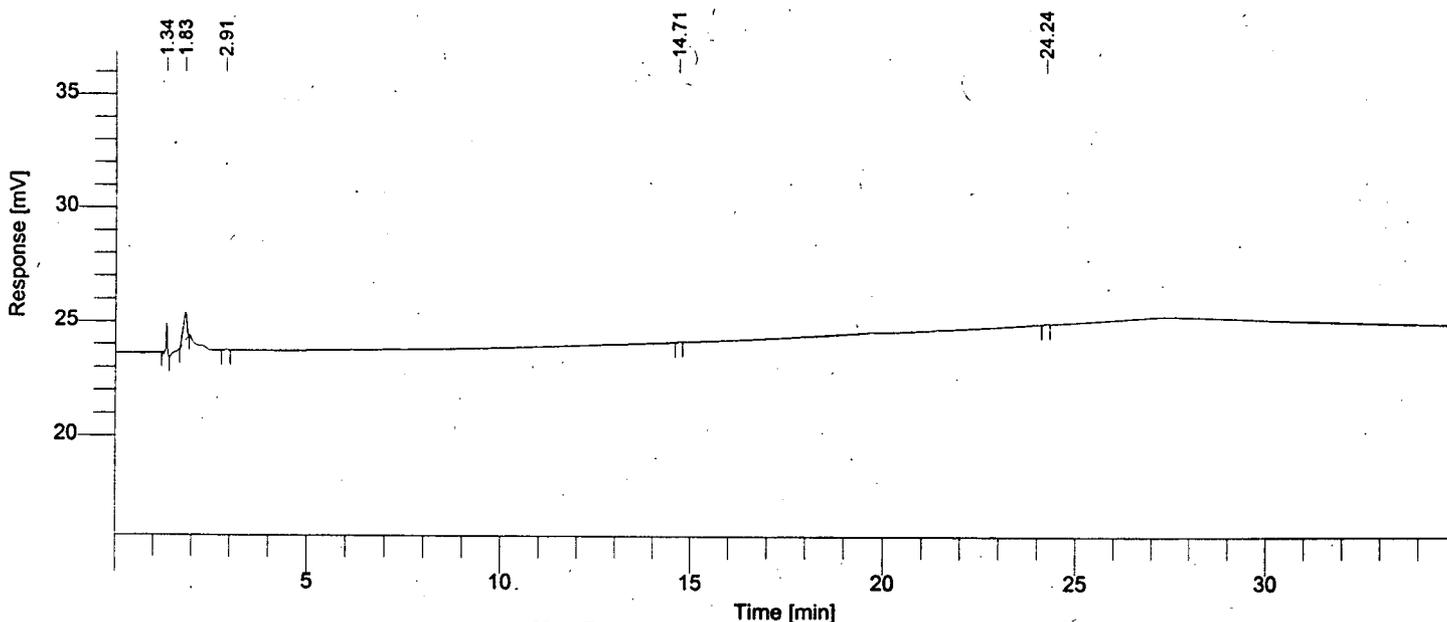
Ave %D = 4.2

* Value >15.0% Difference

FORM VII PCB

Software Version	: 6.1.0.2:G07	Date	: 11/30/98 10:19:51 PM
Operator	: NEARYR	Sample Name	: HEXANE
Sample Number	: 001	Study	:
AutoSampler	: HP7673A	Rack/Vial	: 1/1
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.99 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 1
Data Acquisition Time	: 11/30/98 01:40:39 PM		

Raw Data File : \\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_001.raw
 Result File : \\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_001.rst
 Inst Method : NoInstFile from \\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_001.rst
 Proc Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
 Calib Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
 Sequence File : \\gcsrv1\TCData\Hp58901\NOV\11-30\HP1_1130R.seq



GC Pcb Report

HP5890 1A RTX-5 30m 0.53mm 2ul Inj method 8081

No peaks available to report

Group Report For : AR1016

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
-	10.26	Aroclor 1016-1	0	0.0000
-	12.44	Aroclor 1016-2	0	0.0000
-	13.41	Aroclor 1016-3	0	0.0000
-	13.77	Aroclor 1016-4	0	0.0000
-	15.85	Aroclor 1016-5	0	0.0000
			0	0.0000

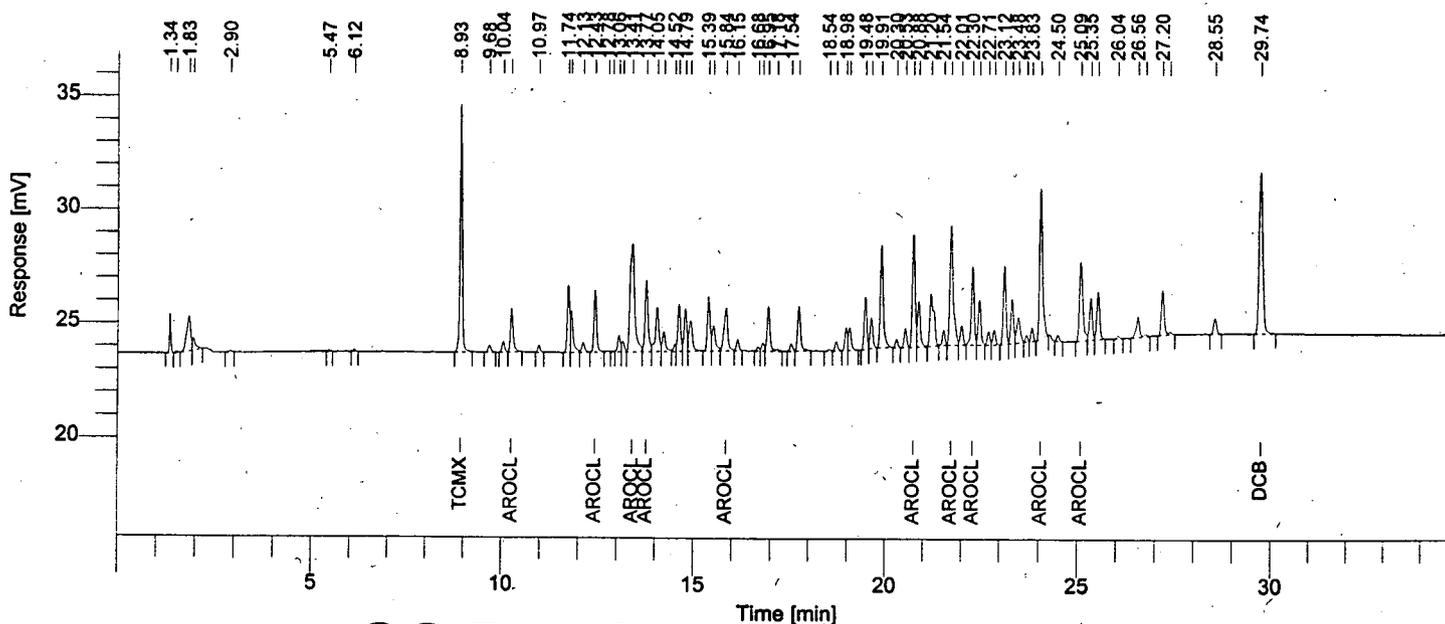
11/30/98 10:19:51 PM Result:
\\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_001.rst

Group Report For : AR1260

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
-	20.75	Aroclor 1260-1	0	0.0000
-	21.74	Aroclor 1260-2	0	0.0000
-	22.31	Aroclor 1260-3	0	0.0000
-	24.06	Aroclor 1260-4	0	0.0000
-	25.10	Aroclor 1260-5	0	0.0000
			0	0.0000

Software Version	: 6.1.0.2:G07	Date	: 11/30/98 10:19:53 PM
Operator	: NEARYR	Sample Name	: AR1660 1130 M1
Sample Number	: 002	Study	: CCV
AutoSampler	: HP7673A	Rack/Vial	: 1/2
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.93 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 2
Data Acquisition Time	: 11/30/98 02:21:36 PM		

Raw Data File : \\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_002.raw
 Result File : \\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_002.rst
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 Calib Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
 Sequence File : \\gcsrv1\TCData\Hp58901\NOV\11-30\HP1_1130R.seq



GC Pcb Continuing Report

HP5890 1A RTX-5 30m 0.53mm 2ul Inj method 8081

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
8	8.93	TCMX	45034	0.0199	0.020	-0.5
	13.41	AR1016	92891	0.1878	0.200	-6.1
	24.05	AR1260	132407	0.1727	0.200	-13.7
74	29.74	DCB	47816	0.0190	0.020	-5.2
			318149	0.3993		

11/30/98 10:19:53 PM Result:

\\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_002.rst

Group Report For : AR1016

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
11	10.26	Aroclor 1016-1	9700	0.1819	0.000	----
16	12.43	Aroclor 1016-2	13024	0.1886	0.000	----
21	13.41	Aroclor 1016-3	39895	0.1888	0.000	----
22	13.77	Aroclor 1016-4	17506	0.1890	0.000	----
31	15.84	Aroclor 1016-5	12766	0.1871	0.000	----
			92891	0.9354		

Group Report For : AR1260

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
48	20.74	Aroclor 1260-1	25064	0.1761	0.000	----
52	21.73	Aroclor 1260-2	32620	0.1737	0.000	----
54	22.30	Aroclor 1260-3	17733	0.1747	0.000	----
63	24.05	Aroclor 1260-4	35406	0.1669	0.000	----
65	25.09	Aroclor 1260-5	21583	0.1752	0.000	----
			132407	0.8667		

```

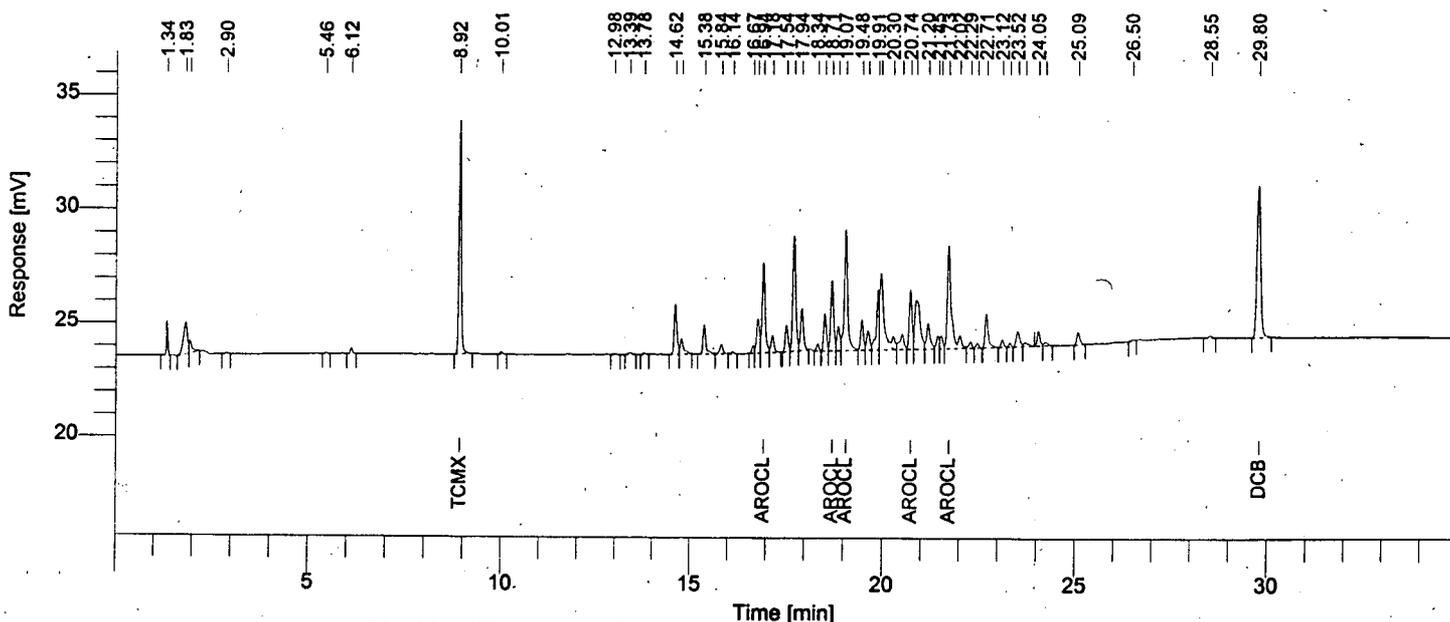
Software Version   : 6.1.0.2:G07
Operator          : NEARYR
Sample Number     : 003
AutoSampler      : HP7673A
Instrument Name   : HP58901A
Instrument Serial # : None
Delay Time       : 0.00 min
Sampling Rate    : 2.5000 pts/s
Volume Injected  : 1.000000 ul
Sample Amount    : 1.0000
Data Acquisition Time : 11/30/98 03:02:34 PM

Date             : 11/30/98 10:19:56 PM
Sample Name      : AR1254 1130 M1
Study           : CCV
Rack/Vial       : 1/3
Channel         : A
A/D mV Range    : 1000
End Time        : 34.99 min

Area Reject     : 100.000000
Dilution Factor : 1.00
Cycle           : 3
    
```

```

Raw Data File : \\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_003.raw
Result File   : \\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_003.rst
Inst Method   : NoInstFile from \\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_003.rst
Proc Method   : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1254_1124.mth
Calib Method  : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1254_1124.mth
Sequence File : \\gcsrv1\TCData\Hp58901\NOV\11-30\HP1_1130R.seq
    
```



GC Pcb Continuing Report

HP5890 1A RTX-5 30m 0.53mm 2ul Inj method 8081

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
7	8.92	TCMX	41685	0.0193	0.020	-3.7
	19.07	AR1254	114533	0.1920	0.200	-4.0
54	29.80	DCB	44920	0.0182	0.020	-8.8
			201137	0.2295		

11/30/98 10:19:56 PM Result:

\\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_003.rst

Group Report For : AR1254

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
19	16.94	Aroclor 1254-1	21790	0.1887	0.000	----
26	18.71	Aroclor 1254-2	16394	0.1893	0.000	----
28	19.07	Aroclor 1254-3	31954	0.1908	0.000	----
35	20.74	Aroclor 1254-4	13505	0.1952	0.000	----
40	21.73	Aroclor 1254-5	30890	0.1959	0.000	----
			114533	0.9599		

```

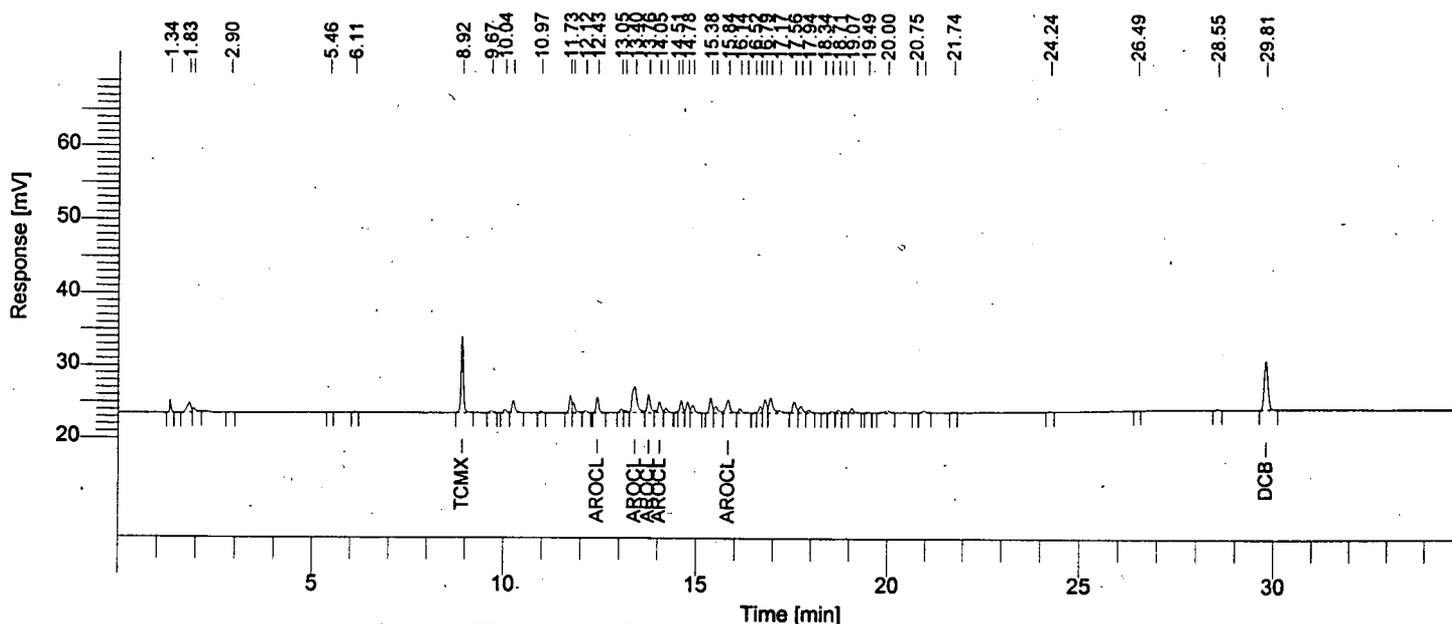
Software Version   : 6.1.0.2:G07
Operator          : NEARYR
Sample Number     : 004
AutoSampler      : HP7673A
Instrument Name   : HP58901A
Instrument Serial # : None
Delay Time       : 0.00 min
Sampling Rate    : 2.5000 pts/s
Volume Injected  : 1.000000 ul
Sample Amount    : 1.0000
Data Acquisition Time : 11/30/98 03:43:35 PM

Date              : 11/30/98 10:19:59 PM
Sample Name      : AR1242 1130 M1
Study            : CCV
Rack/Vial        : 1/4
Channel          : A
A/D mV Range     : 1000
End Time         : 34.99 min

Area Reject      : 100.000000
Dilution Factor : 1.00
Cycle            : 4
    
```

```

Raw Data File : \\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_004.raw
Result File   : \\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_004.rst
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Calib Method  : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1242_1124.mth
Sequence File : \\gcsrv1\TCData\Hp58901\NOV\11-30\HP1_1130R.seq
    
```



GC Pcb Continuing Report

HP5890 1A RTX-5 30m 0.53mm 2ul Inj method 8081

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
7	8.92	TCMX	43633	0.0198	0.000	-----
	13.40	AR1242	77032	0.1941	0.200	-2.9
52	29.81	DCB	45824	0.0186	0.000	-----
			166489	0.2325		

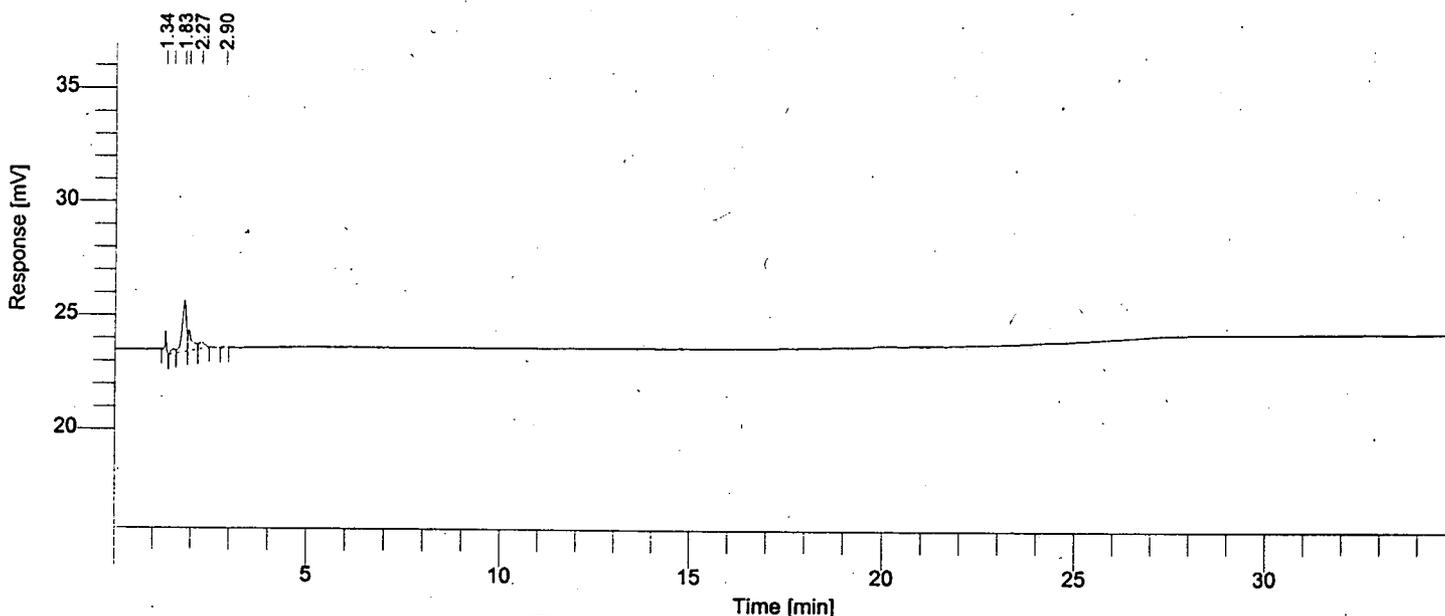
11/30/98 10:19:59 PM Result:
\\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_004.rst

Group Report For : AR1242

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
15	12.43	AROCLOR1242-1	10286	0.1927	0.200	-3.7
18	13.40	AROCLOR1242-2	31160	0.1924	0.200	-3.8
19	13.76	AROCLOR1242-3	13706	0.1911	0.200	-4.5
20	14.05	AROCLOR1242-4	9226	0.1924	0.200	-3.8
28	15.84	AROCLOR1242-5	12655	0.2047	0.200	2.3
			77032	0.9733		

Software Version	: 6.1.0.2:G07	Date	: 12/01/98 08:54:12 AM
Operator	: SCHMITZR	Sample Name	: HEXANE
Sample Number	: 013	Study	:
AutoSampler	: HP7673A	Rack/Vial	: 1/13
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.99 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 13
Data Acquisition Time	: 11/30/98 10:05:58 PM		

Raw Data File : \\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_013.raw
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 Calib Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
 Sequence File : \\gcsrv1\TCData\Hp58901\NOV\11-30\HP1_1130R.seq



GC Pcb Report

HP5890 1A RTX-5 30m 0.53mm 2ul Inj method 8081

No peaks available to report

Group Report For : AR1016

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
-	10.26	Aroclor 1016-1	0	0.0000
-	12.44	Aroclor 1016-2	0	0.0000
-	13.41	Aroclor 1016-3	0	0.0000
-	13.77	Aroclor 1016-4	0	0.0000
-	15.85	Aroclor 1016-5	0	0.0000
			0	0.0000

12/01/98 08:54:12 AM Result:

\\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_013.rst

Group Report For : AR1260

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
-	20.75	Aroclor 1260-1	0	0.0000
-	21.74	Aroclor 1260-2	0	0.0000
-	22.31	Aroclor 1260-3	0	0.0000
-	24.06	Aroclor 1260-4	0	0.0000
-	25.10	Aroclor 1260-5	0	0.0000
			0	0.0000

```

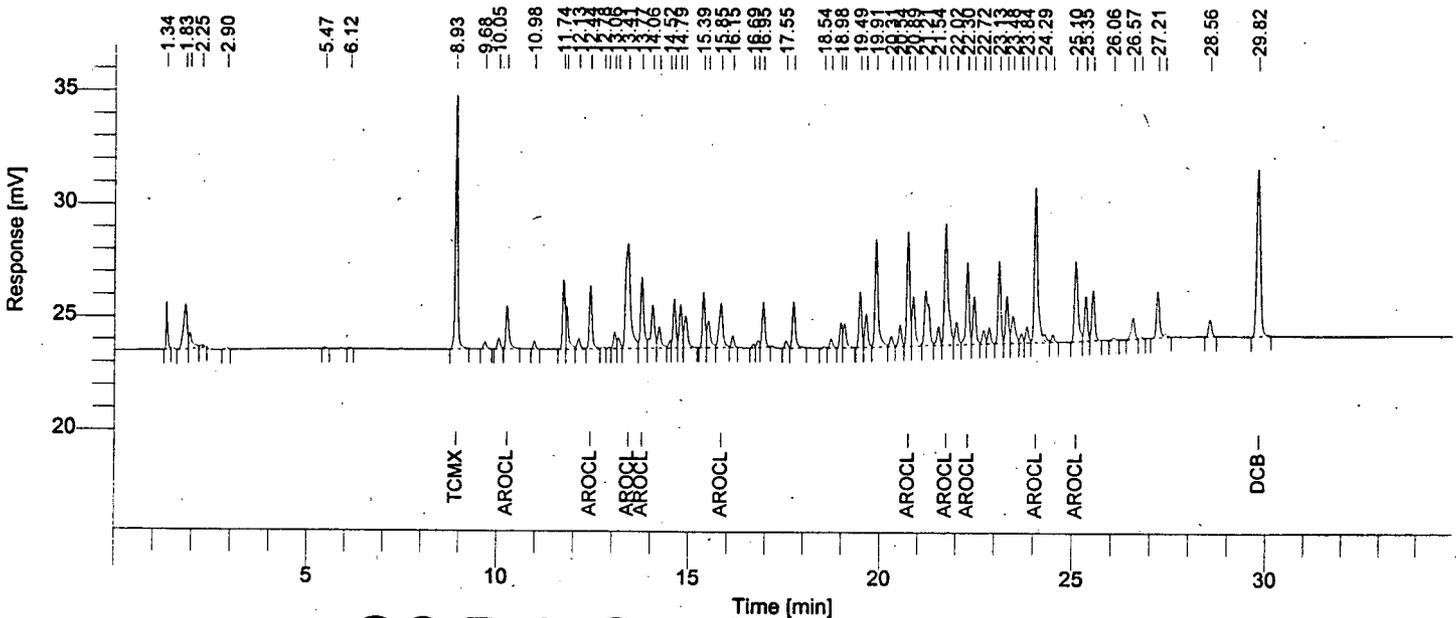
Software Version   : 6.1.0.2:G07
Operator          : SCHMITZR
Sample Number     : 014
AutoSampler      : HP7673A
Instrument Name   : HP58901A
Instrument Serial # : None
Delay Time       : 0.00 min
Sampling Rate    : 2.5000 pts/s
Volume Injected  : 1.000000 ul
Sample Amount    : 1.0000
Data Acquisition Time : 11/30/98 10:46:53 PM

Date              : 12/01/98 08:54:18 AM
Sample Name      : AR1660 1130 M2
Study            : CCV
Rack/Vial        : 1/14
Channel          : A
A/D mV Range     : 1000
End Time         : 34.99 min

Area Reject      : 100.000000
Dilution Factor  : 1.00
Cycle            : 14
    
```

```

Raw Data File : \\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_014.raw
Result File   : \\gcsrv1\TCData\hp58901\nov\11-30\hp1a_981130370r_014.rst
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Proc Method   : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
Calib Method  : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
Sequence File : \\gcsrv1\TCData\Hp58901\NOV\11-30\HP1_1130R.seq
    
```



GC Pcb Continuing Report

HP5890 1A RTX-5 30m 0.53mm 2ul Inj method 8081

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
8	8.93	TCMX	47599	0.0210	0.020	5.2
	13.41	AR1016	98477	0.1991	0.200	-0.4
	24.06	AR1260	146885	0.1915	0.200	-4.2
74	29.82	DCB	50790	0.0201	0.020	0.7
			343752	0.4318		

12/01/98 08:54:18 AM Result:

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Group Report For : AR1016

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
11	10.26	Aroclor 1016-1	10461	0.1961	0.000	----
16	12.44	Aroclor 1016-2	13857	0.2006	0.000	----
21	13.41	Aroclor 1016-3	41591	0.1968	0.000	----
22	13.77	Aroclor 1016-4	18712	0.2021	0.000	----
31	15.85	Aroclor 1016-5	13855	0.2031	0.000	----
			98477	0.9987		

Group Report For : AR1260

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
47	20.75	Aroclor 1260-1	26772	0.1881	0.000	----
51	21.74	Aroclor 1260-2	35934	0.1914	0.000	----
53	22.30	Aroclor 1260-3	19773	0.1948	0.000	----
62	24.06	Aroclor 1260-4	41518	0.1957	0.000	----
65	25.10	Aroclor 1260-5	22888	0.1858	0.000	----
			146885	0.9558		

TEST CODE :WPCB0A1

JOB NUMBER :9803.017

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : ROY F. WESTON - EDISON

TEST NAME : 8082 PCB

UNITS : UG/L

SAMPLE ID LAB : METHOD BLANK (1352-40-1) MATRIX: WATER

DATE OF ANALYSIS: 11/30/98

ASSOCIATED SAMPLE: 19597

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.50
PCB-1254	ND		0.50
PCB-1221	ND		1.0
PCB-1232	ND		0.50
PCB-1248	ND		0.50
PCB-1260	ND		0.50
PCB-1016	ND		0.50

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

```

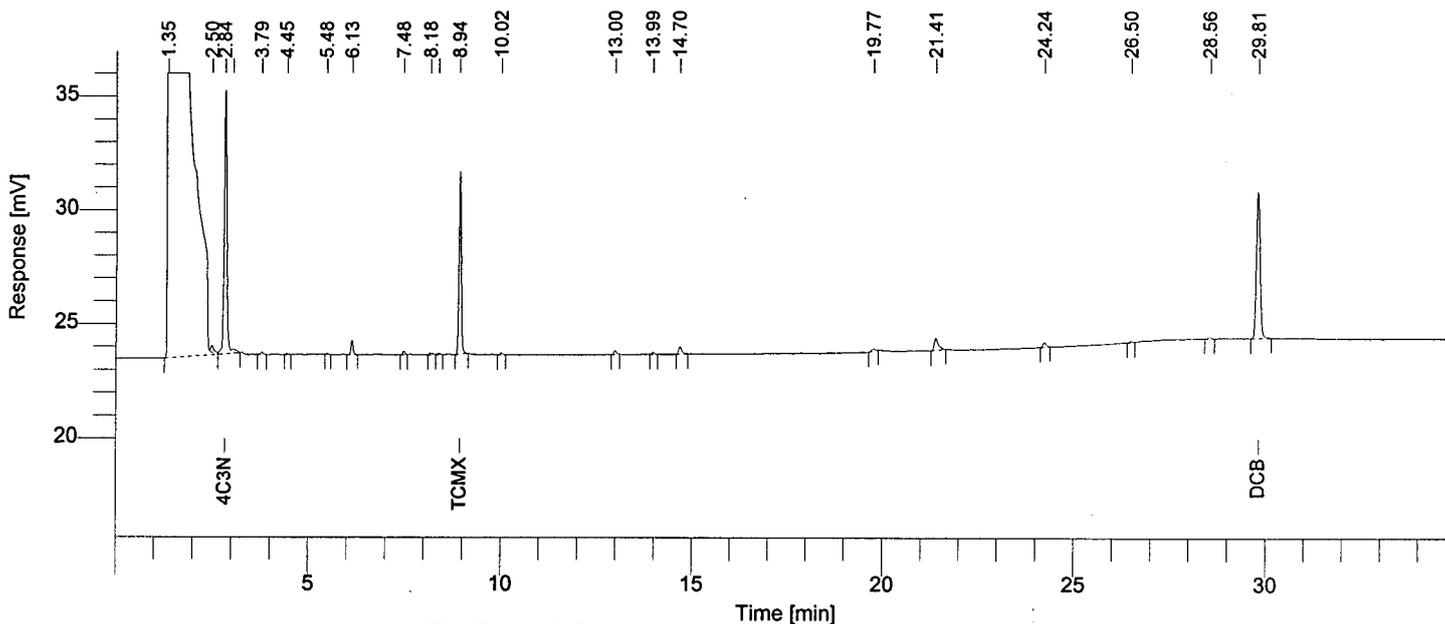
Software Version   : 6.1.0.2:G07
Operator          : SCHMITZR
Sample Number     : 005
AutoSampler      : HP7673A
Instrument Name   : HP58901A
Instrument Serial # : None
Delay Time       : 0.00 min
Sampling Rate    : 2.5000 pts/s
Volume Injected  : 1.000000 ul
Sample Amount    : 1.0000
Data Acquisition Time : 11/30/98 04:38:17 PM

Date             : 11/30/98 10:20:02 PM
Sample Name      : 1352-040-1
Study           : 9803.017/.030
Rack/Vial       : 1/5
Channel         : A
A/D mV Range    : 1000
End Time        : 34.99 min

Area Reject     : 100.000000
Dilution Factor : 1.00
Cycle           : 5
    
```

```

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Proc Method   : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
Calib Method  : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
Sequence File : \\gcsrv1\TCData\Hp58901\NOV\11-30\HP1_1130R.seq
    
```



GC Water PCB Report

HP5890 1A RTX-5 30m 0.53mm 2ul Inj method 8081

Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Sample Conc. ug/L	Amt. Ext.(L)	Dilution Factor	Final Vol. (ml)
2.84	4C3N	55033	0.0273	0.2735	1.0000	1.0000	10.0000
8.94	TCMX	32271	0.0143	0.1427	1.0000	1.0000	10.0000
29.81	DCB	43349	0.0172	0.1719	1.0000	1.0000	10.0000

11/30/98 10:20:02 PM Result:

\\gcsrv1\TCDData\hp58901\nov\11-30\hp1a_981130370r_005.rst

Group Report For : AR1016

Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Sample Conc. ug/L	Amt. Ext.(L)	Dilution Factor	Final Vol. (ml)
10.26	Aroclor 1016-1	0	0.0000	0.0000	1.0000	1.0000	10.0000
12.44	Aroclor 1016-2	0	0.0000	0.0000	1.0000	1.0000	10.0000
13.41	Aroclor 1016-3	0	0.0000	0.0000	1.0000	1.0000	10.0000
13.77	Aroclor 1016-4	0	0.0000	0.0000	1.0000	1.0000	10.0000
15.85	Aroclor 1016-5	0	0.0000	0.0000	1.0000	1.0000	10.0000

Group Report For : AR1260

Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Sample Conc. ug/L	Amt. Ext.(L)	Dilution Factor	Final Vol. (ml)
20.75	Aroclor 1260-1	0	0.0000	0.0000	1.0000	1.0000	10.0000
21.74	Aroclor 1260-2	0	0.0000	0.0000	1.0000	1.0000	10.0000
22.31	Aroclor 1260-3	0	0.0000	0.0000	1.0000	1.0000	10.0000
24.06	Aroclor 1260-4	0	0.0000	0.0000	1.0000	1.0000	10.0000
25.10	Aroclor 1260-5	0	0.0000	0.0000	1.0000	1.0000	10.0000



PCB
QUALITY CONTROL FOR ACCURACY
PERCENT RECOVERY OF SURROGATE SPIKES
SOIL MATRIX

SOILS

UG/KG

E & E Job No:

9802.916

Sample Identification	<u>Tetrachloro-m-xylene</u>			Q	<u>Decachlorobiphenyl</u>		
	Amount Added	Amount Determined	Percent Recovery		Amount Added	Amount Determined	Percent Recovery
1311-50-1	6.60	4.60	69.7%		6.60	5.20	78.8%
1311-50-2	6.60	5.30	80.3%		6.60	5.80	87.9%
19594 10X	6.60	5.30	80.3%		6.60	6.80	103.0%
19595 10X	6.60	4.40	66.7%		6.60	5.50	83.3%
19594 MS 10X	6.60	5.30	80.3%		6.60	6.40	97.0%
19594 MSD 10X	6.60	5.80	87.9%		6.60	7.00	106.1%
19591 2000X	6.60	D	D		6.60	D	D
19592 2000X	6.60	D	D		6.60	D	D
19593 2000X	6.60	D	D		6.60	D	D
19596 1000X	6.70	D	D		6.70	D	D

Q - Column used to flag recovery

* - Value is outside E & E, INC. QC limits.

D - Value is Diluted Out

LCS/LCSD = LABORATORY CONTROL SAMPLE/DUP
MS/MSD = MATRIX SPIKE/MATRIX SPIKE DUPLICATE

QC LIMITS

Tetrachloro-m-xylene 62-127

Decachlorobiphenyl 56-132

12/4/98



3
SOIL PCB MS/MSD RECOVERY
SW8082

Lab Name: E & E INC.

Job No.: 9803.017

Prep Batch No.: 981124305P

Instrument HP58901A

Sample No.: 19594

Run Date 12/2/98

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC	QC LIMITS REC.
Aroclor 1016	166	0	172	103.9	57 - 138
Aroclor 1260	166	0	292	176.0 *	40 - 160

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONC. (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC
Aroclor 1016	166	180	108.6	4.5	16	57 - 138
Aroclor 1260	166	320	192.8 *	9.1	21	40 - 160

* Values outside of QC limits

RPD: 0 out of 2 outside limits
 Spike Recovery: 2 out of 4 outside limits

COMMENTS:

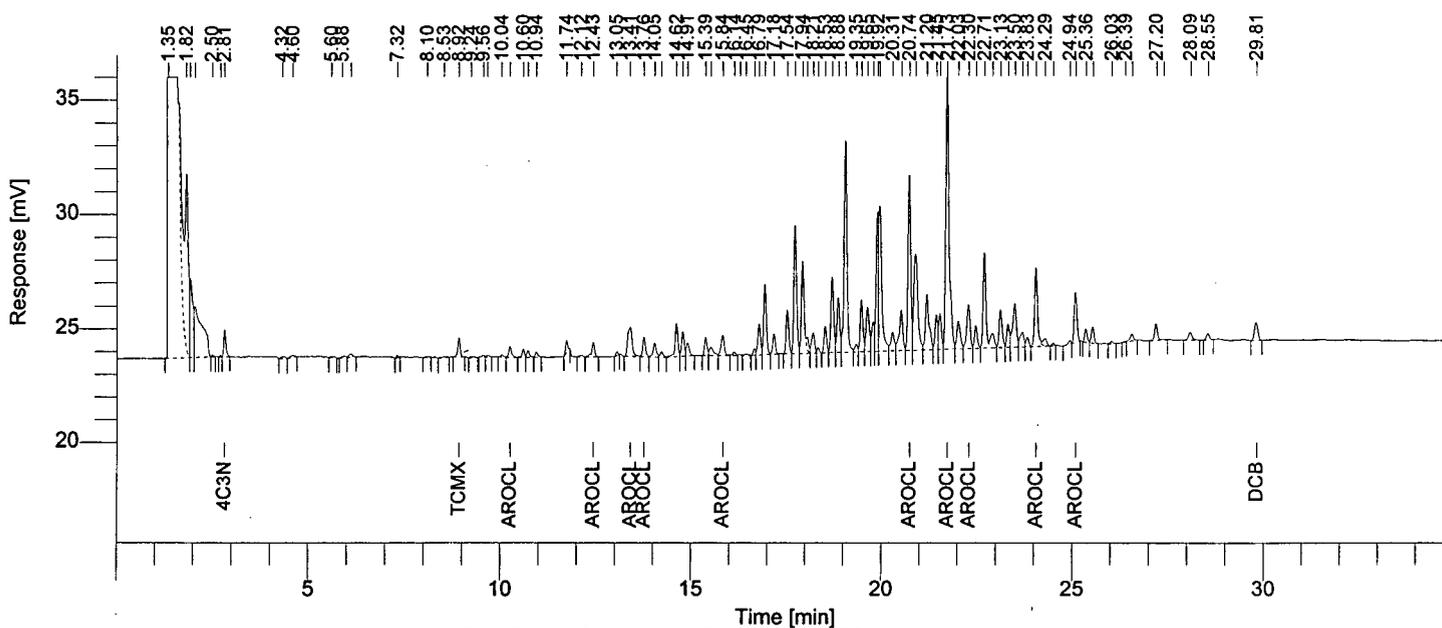
Sample run at 10X and contains AR1254.

FORM III PCB-2

QC Limits Generated from
 E&E QA Chart Program 9/14/98

Software Version	: 6.1.0.2:G07	Date	: 12/03/98 09:38:59 AM
Operator	: SCHMITZR	Sample Name	: 19594 MS 10X
Sample Number	: 014	Study	: 9803.017
AutoSampler	: HP7673A	Rack/Vial	: 1/14
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.99 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 10.00
Sample Amount	: 1.0000	Cycle	: 14
Data Acquisition Time	: 12/02/98 10:42:05 PM		

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 Inst Method : \\gcsrv1\TCData\Hp58901\hp1_rtx5 from
 \\gcsrv1\TCData\hp58901\DEC\12-02\hp1a_981202370r_014.rst
 Proc Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
 Calib Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
 Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq



GC Pcb Soil Report

hp5890 1a RTX-5 30m 0.53mm 2ul Inj GC.14(8081) GC.73(8082)

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
7	2.81	4C3N	4652	-0.0263	-87.17	10.0	30.14
16	8.92	TCMX	3638	0.0016	5.34	10.0	30.14
	13.41	AR1016	25685	0.0519	172.30	10.0	30.14
	21.78	AR1260	151630	0.1977	656.00	10.0	30.14
94	29.81	DCB	4855	0.0019	6.39	10.0	30.14
			190460	0.2269		50.0	150.70

g 12/5/98

12/03/98 09:38:59 AM Result:
 \\gcsrv1\TCDData\hp58901\DEC\12-02\hp1a_981202370r_014.rst

Group Report For : AR1016

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
21	10.25	Aroclor 1016-1	2289	0.0429	142.43	10.0	30.14
27	12.43	Aroclor 1016-2	3324	0.0481	159.71	10.0	30.14
29	13.41	Aroclor 1016-3	10469	0.0495	164.36	10.0	30.14
30	13.76	Aroclor 1016-4	4334	0.0468	155.27	10.0	30.14
38	15.84	Aroclor 1016-5	5268	0.0772	256.15	10.0	30.14
			25685	0.2646		50.0	150.70

Group Report For : AR1260

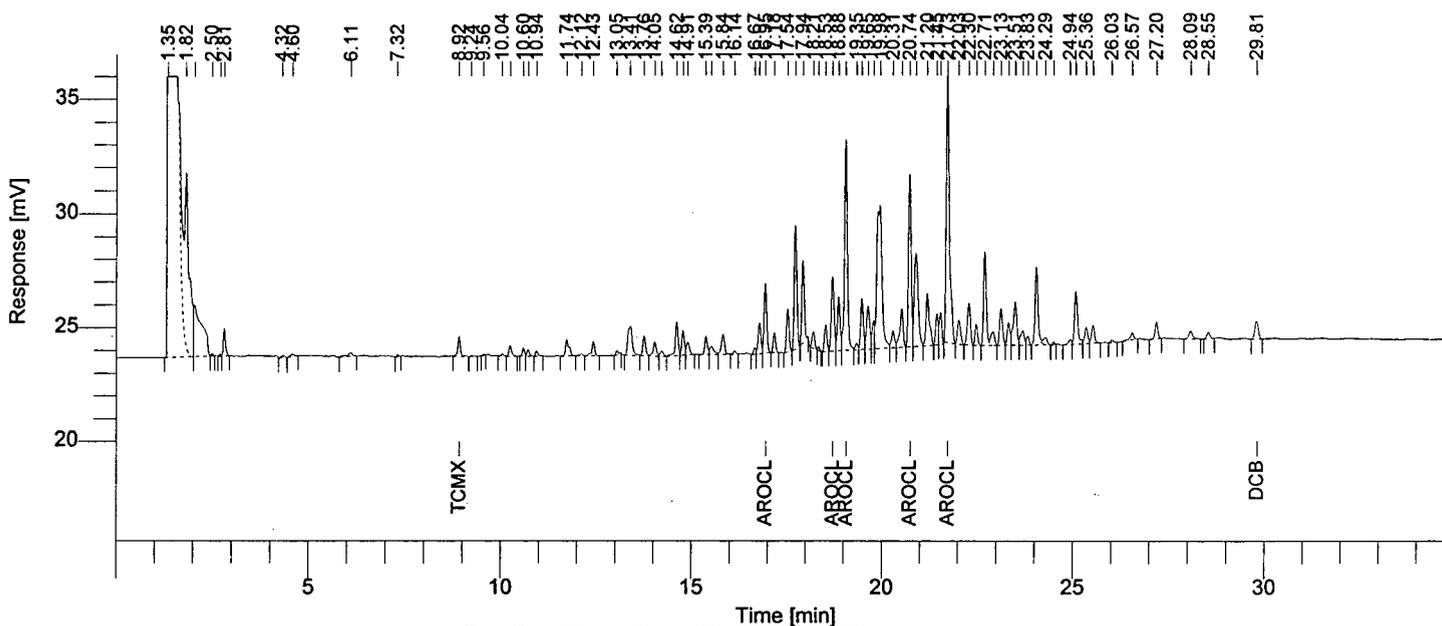
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
64	20.74	Aroclor 1260-1	38521	0.2707	898.12	10.0	30.14
69	21.73	Aroclor 1260-2	71858	0.3827	1269.85	10.0	30.14
71	22.30	Aroclor 1260-3	11806	0.1163	385.81	10.0	30.14
80	24.06	Aroclor 1260-4	18406	0.0868	287.89	10.0	30.14
84	25.09	Aroclor 1260-5	11040	0.0896	297.32	10.0	30.14
			151630	0.9461		50.0	150.70

Σ 292

In 12/4/98

Software Version	: 6.1.0.2:G07	Date	: 12/03/98 10:15:32 AM
Operator	: SCHMITZR	Sample Name	: 19594 MS 10X
Sample Number	: 014	Study	: 9803.017
AutoSampler	: HP7673A	Rack/Vial	: 1/14
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.99 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 10.00
Sample Amount	: 1.0000	Cycle	: 14
Data Acquisition Time	: 12/02/98 10:42:05 PM		

Raw Data File : \\gcsrv1\TCData\hp58901\DEC\12-02\hp1a_981202370r_014.raw
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 Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq



GC Pcb Soil Report

hp5890 1a RTX-5 30m 0.53mm 2ul Inj GC.14(8081) GC.73(8082)

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
11	8.92	TCMX	4210	0.0019	6.45	10.0	30.14
	21.73	AR1254	185359	0.3108	1031.07	10.0	30.14
82	29.81	DCB	4855	0.0020	6.54	10.0	30.14
			194424	0.3147		30.0	90.42

12/03/98 10:15:32 AM Result:

\\gcsrv1\TCDData\hp58901\DEC\12-02\hp1a_981202370r_014.rst

Group Report For : AR1254

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
36	16.95	Aroclor 1254-1	14865	0.1287	427.07	10.0	30.14
44	18.72	Aroclor 1254-2	17048	0.1969	653.25	10.0	30.14
46	19.07	Aroclor 1254-3	48290	0.2883	956.57	10.0	30.14
54	20.74	Aroclor 1254-4	37421	0.5409	1794.55	10.0	30.14
59	21.73	Aroclor 1254-5	67736	0.4295	1424.95	10.0	30.14
			185359	1.5843		50.0	150.70

```

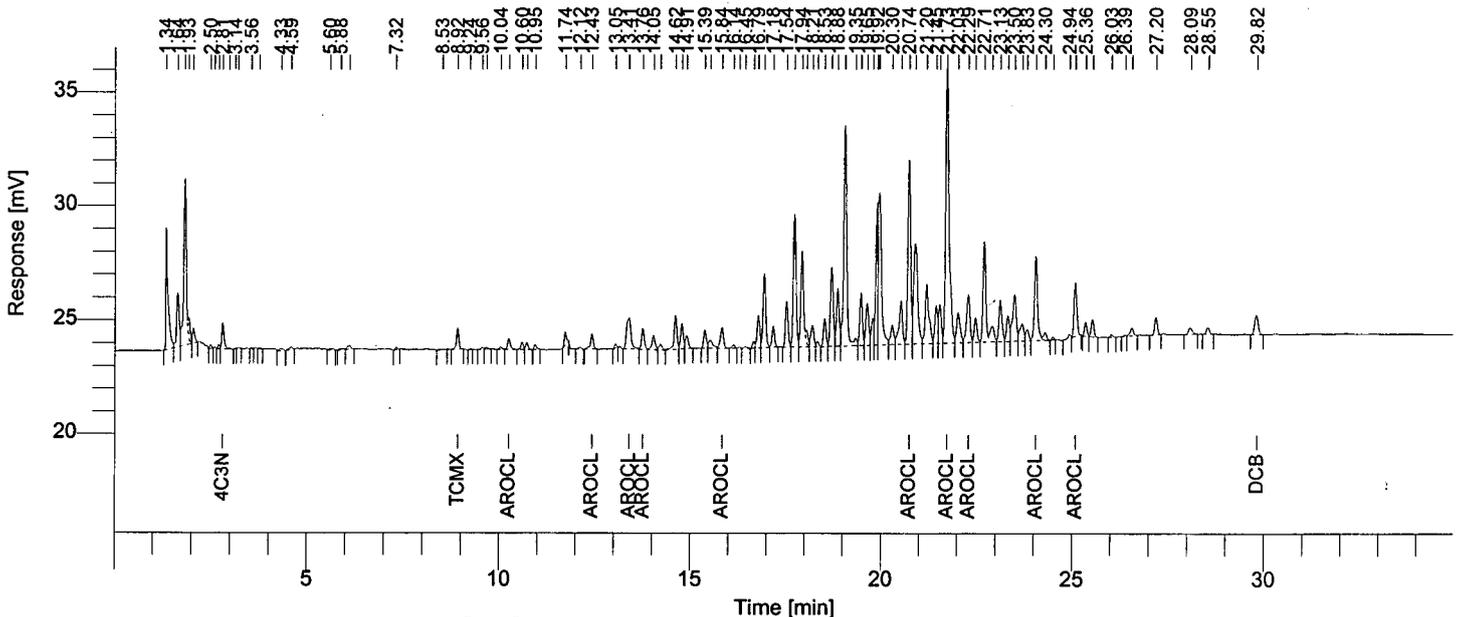
Software Version   : 6.1.0.2:G07
Operator          : SCHMITZR
Sample Number     : 015
AutoSampler       : HP7673A
Instrument Name    : HP58901A
Instrument Serial # : None
Delay Time        : 0.00 min
Sampling Rate     : 2.5000 pts/s
Volume Injected   : 1.000000 ul
Sample Amount     : 1.0000
Data Acquisition Time : 12/02/98 11:23:00 PM

Date              : 12/03/98 09:39:07 AM
Sample Name       : 19594 MSD 10X
Study             : 9803.017
Rack/Vial         : 1/15
Channel           : A
A/D mV Range      : 1000
End Time          : 34.99 min

Area Reject       : 100.000000
Dilution Factor   : 10.00
Cycle             : 15
    
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Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq
    
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GC Pcb Soil Report

hp5890 1a RTX-5 30m 0.53mm 2ul Inj GC.14(8081) GC.73(8082)

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
9	2.81	4C3N	4743	-0.0262	-86.91	10.0	30.12
22	8.92	TCMX	3963	0.0018	5.82	10.0	30.12
	13.41	AR1016	26866	0.0543	180.35	10.0	30.12
	21.73	AR1260	162318	0.2117	702.71	10.0	30.12
99	29.82	DCB	5322	0.0021	7.01	10.0	30.12
			203211	0.2437		50.0	150.60

g 12/4/98

12/03/98 09:39:07 AM Result:

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Group Report For : AR1016

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
27	10.25	Aroclor 1016-1	2387	0.0448	148.62	10.0	30.12
33	12.43	Aroclor 1016-2	3480	0.0504	167.30	10.0	30.12
35	13.41	Aroclor 1016-3	11087	0.0525	174.18	10.0	30.12
36	13.76	Aroclor 1016-4	4537	0.0490	162.67	10.0	30.12
44	15.84	Aroclor 1016-5	5374	0.0788	261.49	10.0	30.12
			26866	0.2754		50.0	150.60

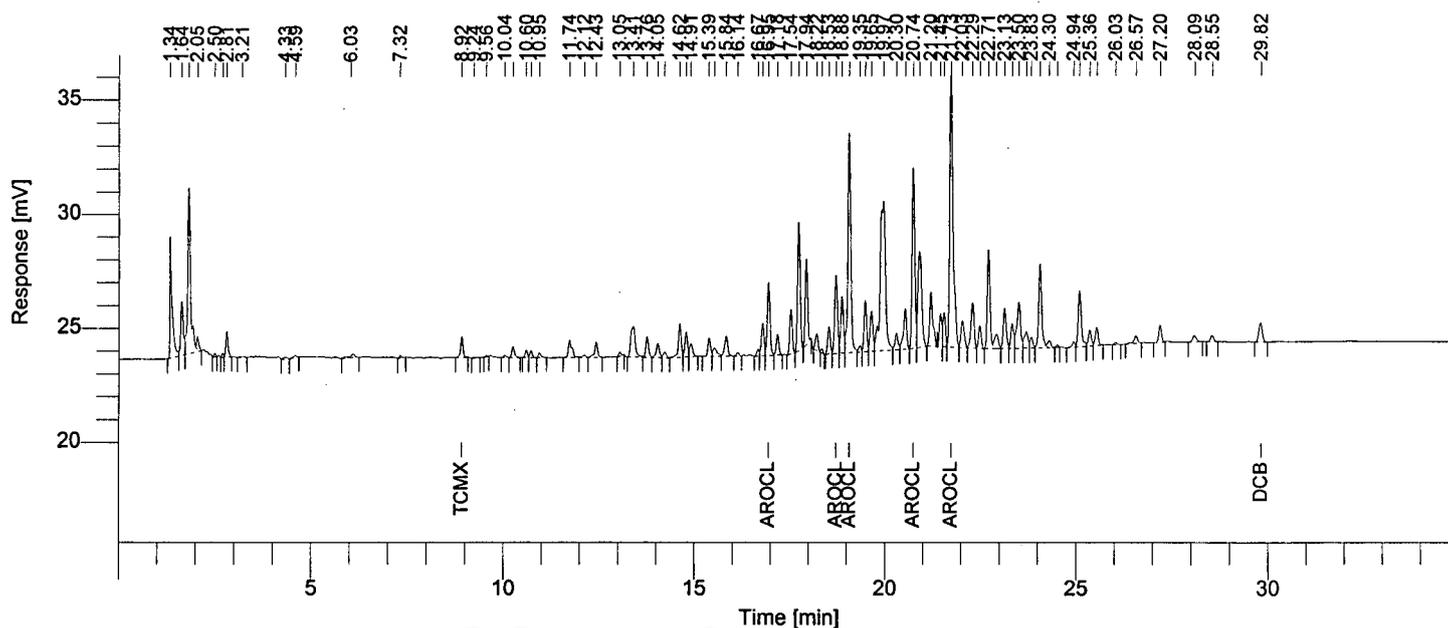
Group Report For : AR1260

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
70	20.74	Aroclor 1260-1	40666	0.2858	848.75	10.0	30.12
75	21.73	Aroclor 1260-2	76440	0.4071	1551.72	10.0	30.12
77	22.29	Aroclor 1260-3	12922	0.1273	422.54	10.0	30.12
86	24.05	Aroclor 1260-4	20501	0.0966	320.88	10.0	30.12
90	25.09	Aroclor 1260-5	11789	0.0957	317.72	10.0	30.12
			162318	1.0125		50.0	150.60

g $E_2 = 319.5$

Software Version	: 6.1.0.2:G07	Date	: 12/03/98 10:15:38 AM
Operator	: SCHMITZR	Sample Name	: 19594 MSD 10X
Sample Number	: 015	Study	: 9803.017
AutoSampler	: HP7673A	Rack/Vial	: 1/15
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.99 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 10.00
Sample Amount	: 1.0000	Cycle	: 15
Data Acquisition Time	: 12/02/98 11:23:00 PM		

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 Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq



GC Pcb Soil Report

hp5890 1a RTX-5 30m 0.53mm 2ul Inj GC.14(8081) GC.73(8082)

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
13	8.92	TCMX	3975	0.0018	6.10	10.0	30.12
	21.73	AR1254	197721	0.3315	1100.57	10.0	30.12
83	29.82	DCB	5328	0.0022	7.18	10.0	30.12
			207024	0.3355		30.0	90.36

12/03/98 10:15:38 AM Result:

\\gcsrv1\TCData\hp58901\DEC\12-02\hp1a_981202370r_015.rst

Group Report For : AR1254

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
38	16.95	Aroclor 1254-1	15955	0.1382	458.71	10.0	30.12
46	18.72	Aroclor 1254-2	18073	0.2087	693.00	10.0	30.12
48	19.07	Aroclor 1254-3	50976	0.3043	1010.45	10.0	30.12
55	20.74	Aroclor 1254-4	39122	0.5655	1877.37	10.0	30.12
60	21.73	Aroclor 1254-5	73596	0.4666	1549.24	10.0	30.12
			197721	1.6833		50.0	150.60



3
SOIL PCB LCS RECOVERY
SW8082

Lab Name: E & E INC.

Job No.: 9803.017

Prep Batch No.: 981124305P

Instrument HP58901A

Sample No.: SLCS1311-50-2

Run Date 12/2/98

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONC. (ug/Kg)	LCS % REC	QC LIMITS REC.
Aroclor 1016	165	120	72.8	50 - 150
Aroclor 1260	165	124	75.1	50 - 150

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

QC Limits Generated from
E&E QA Chart Program 9/14/98

```

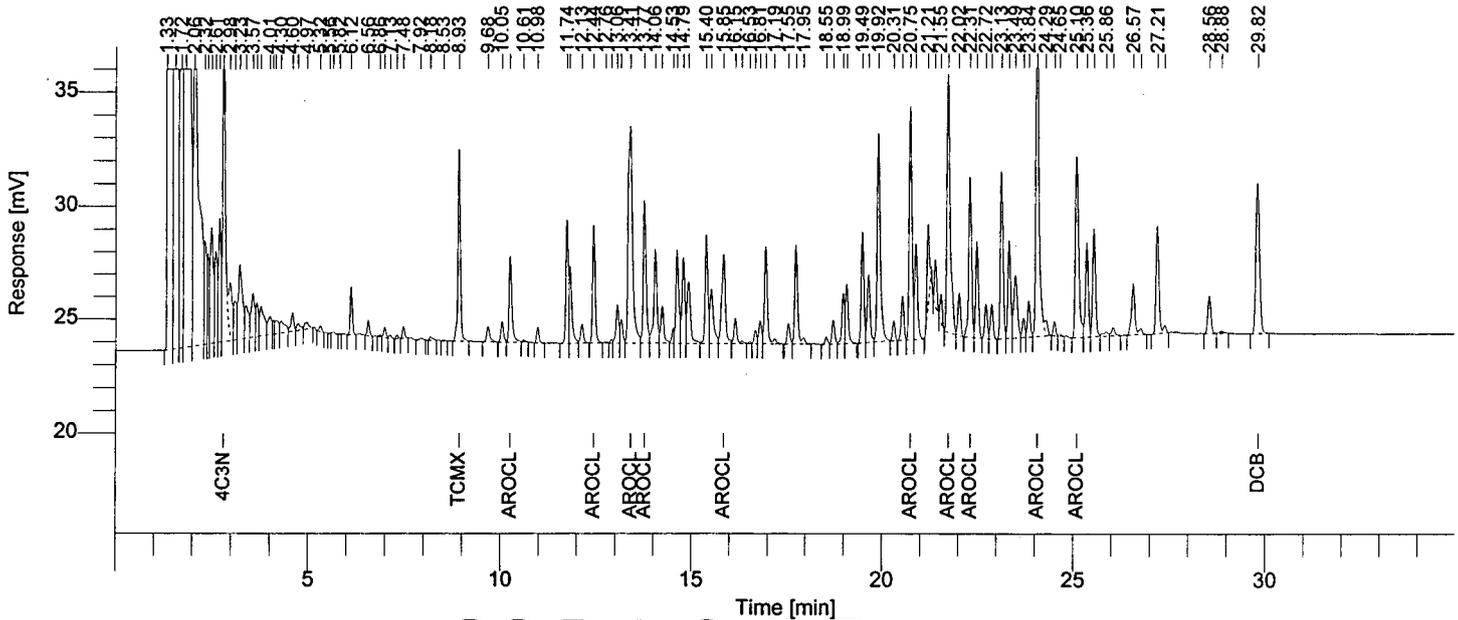
Software Version   : 6.1.0.2:G07
Operator          : SCHMITZR
Sample Number     : 007
AutoSampler      : HP7673A
Instrument Name   : HP58901A
Instrument Serial # : None
Delay Time       : 0.00 min
Sampling Rate    : 2.5000 pts/s
Volume Injected  : 1.000000 ul
Sample Amount    : 1.0000
Data Acquisition Time : 12/02/98 05:55:26 PM

Date             : 12/03/98 09:38:12 AM
Sample Name      : 1311-50-2
Study           : 9803.017
Rack/Vial       : 1/7
Channel         : A
A/D mV Range    : 1000
End Time        : 34.99 min

Area Reject     : 100.000000
Dilution Factor : 1.00
Cycle           : 7
    
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               \\gcsrv1\TCData\hp58901\DEC\12-02\hp1a_981202370r_007.rst
Proc Method   : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
Calib Method  : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq
    
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GC Pcb Soil Report

hp5890 1a RTX-5 30m 0.53mm 2ul Inj GC.14(8081) GC.73(8082)

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
11	2.81	4C3N	71871	0.0453	14.92	10.0	30.33
40	8.93	TCMX	36568	0.0162	5.33	10.0	30.33
	13.41	AR1016	179949	0.3638	119.96	10.0	30.33
	24.06	AR1260	288121	0.3757	123.87	10.0	30.33
115	29.82	DCB	44386	0.0176	5.80	10.0	30.33
			620894	0.8186		50.0	151.65

12/03/98 09:38:12 AM Result:
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Group Report For : AR1016

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
43	10.26	Aroclor 1016-1	19412	0.3640	120.01	10.0	30.33
49	12.44	Aroclor 1016-2	24199	0.3504	115.53	10.0	30.33
54	13.41	Aroclor 1016-3	76381	0.3614	119.16	10.0	30.33
55	13.77	Aroclor 1016-4	33286	0.3594	118.50	10.0	30.33
64	15.85	Aroclor 1016-5	26671	0.3909	128.88	10.0	30.33
			179949	1.8261		50.0	151.65

Group Report For : AR1260

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
84	20.75	Aroclor 1260-1	51718	0.3634	119.83	10.0	30.33
89	21.74	Aroclor 1260-2	67572	0.3599	118.66	10.0	30.33
91	22.31	Aroclor 1260-3	36602	0.3605	118.86	10.0	30.33
100	24.06	Aroclor 1260-4	83275	0.3926	129.44	10.0	30.33
104	25.10	Aroclor 1260-5	48954	0.3974	131.02	10.0	30.33
			288121	1.8738		50.0	151.65

TEST CODE :SPCB0A1

JOB NUMBER :9803.017

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : ROY F. WESTON - EDISON

RESULTS IN DRY WEIGHT

%SOLIDS : 41.6%

TEST NAME : 8082 PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-98-19591

MATRIX : SOLID

SAMPLE ID CLIENT: CCSD1-A

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		96000
PCB-1254	580000	J	96000
PCB-1221	ND		192000
PCB-1232	ND		96000
PCB-1248	ND		96000
PCB-1260	ND		96000
PCB-1016	ND		96000

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

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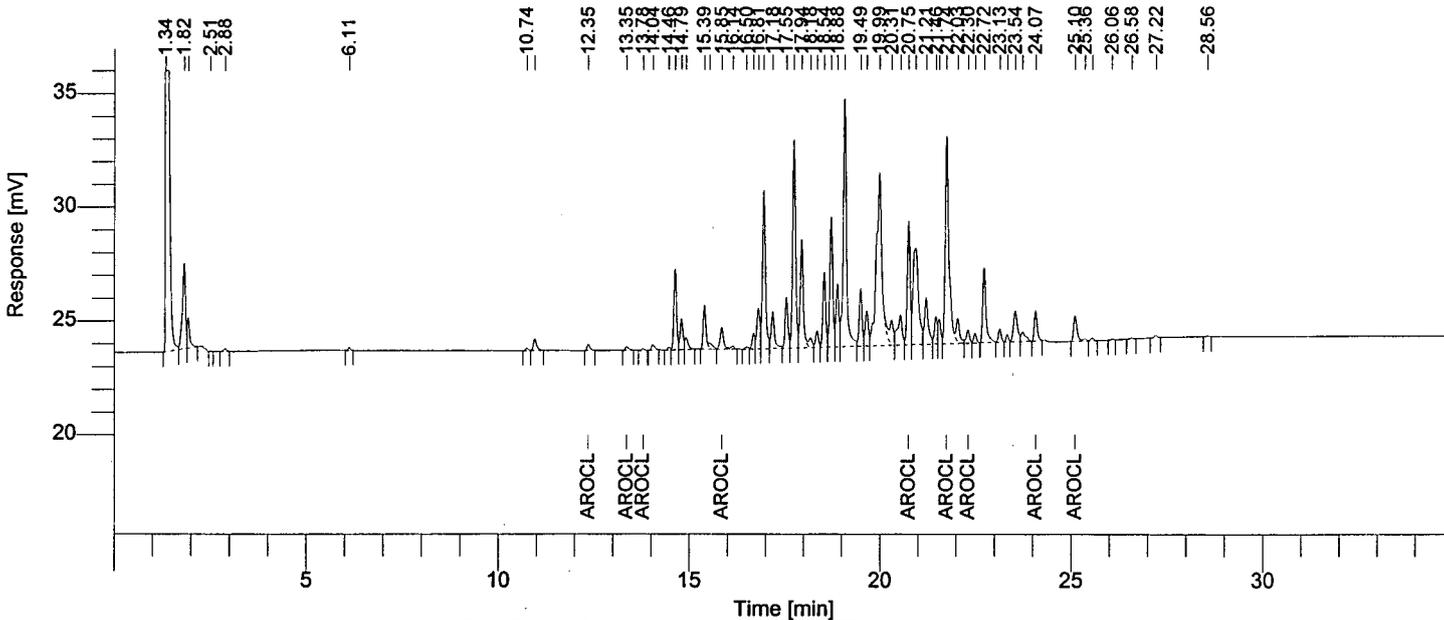
Software Version   : 6.1.0.2:G07
Operator          : SCHMITZR
Sample Number     : 019
AutoSampler      : HP7673A
Instrument Name   : HP58901A
Instrument Serial # : None
Delay Time       : 0.00 min
Sampling Rate    : 2.5000 pts/s
Volume Injected  : 1.000000 ul
Sample Amount    : 1.0000
Data Acquisition Time : 12/03/98 02:06:47 AM

Date             : 12/03/98 09:39:30 AM
Sample Name      : 19591 2000X
Study           : 9803.017
Rack/Vial       : 1/19
Channel         : A
A/D mV Range    : 1000
End Time        : 34.99 min

Area Reject     : 100.000000
Dilution Factor : 2000.00
Cycle           : 19
    
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Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq
    
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GC Pcb Soil Report

hp5890 1a RTX-5 30m 0.53mm 2ul Inj GC.14(8081) GC.73(8082)

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
	15.85	AR1016	8610	0.0174	11566.69	10.0	30.10
	21.74	AR1260	109073	0.1422	94502.62	10.0	30.10
			117682	0.1596		20.0	60.20

12/03/98 09:39:30 AM Result:

\\gcsrv1\TCDData\hp58901\DEC\12-02\hp1a_981202370r_019.rst

Group Report For : AR1016

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
-	10.26	Aroclor 1016-1	0	0.0000	0.00	10.0	30.10
9	12.35	Aroclor 1016-2	1389	0.0201	13366.01	10.0	30.10
10	13.35	Aroclor 1016-3	937	0.0044	2945.65	10.0	30.10
11	13.78	Aroclor 1016-4	353	0.0038	2531.18	10.0	30.10
19	15.85	Aroclor 1016-5	5931	0.0869	57753.06	10.0	30.10
			8610	0.1153		50.0	150.50

Group Report For : AR1260

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
40	20.75	Aroclor 1260-1	28756	0.2021	134265.79	10.0	30.10
45	21.74	Aroclor 1260-2	62769	0.3343	222143.55	10.0	30.10
47	22.30	Aroclor 1260-3	3455	0.0340	22610.70	10.0	30.10
54	24.07	Aroclor 1260-4	6988	0.0329	21890.87	10.0	30.10
55	25.10	Aroclor 1260-5	7105	0.0577	38319.57	10.0	30.10
			109073	0.6610		50.0	150.50

```

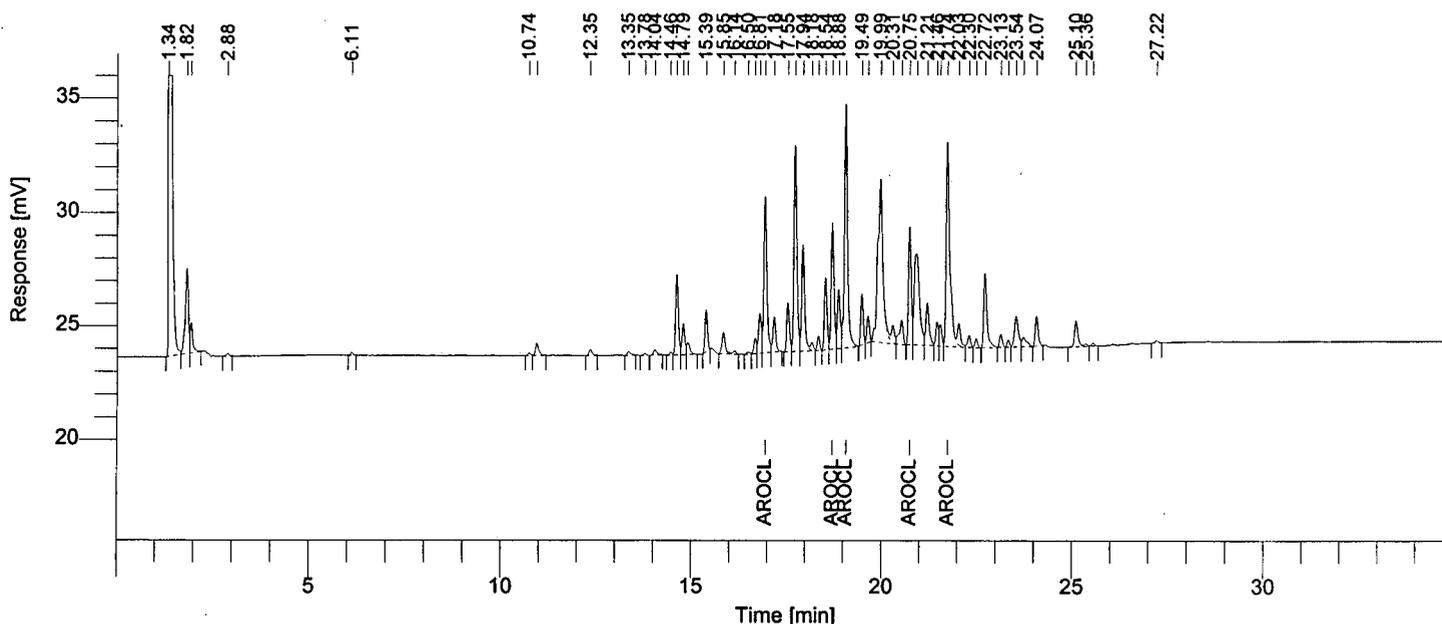
Software Version   : 6.1.0.2:G07
Operator          : SCHMITZR
Sample Number     : 019
AutoSampler       : HP7673A
Instrument Name    : HP58901A
Instrument Serial # : None
Delay Time        : 0.00 min
Sampling Rate     : 2.5000 pts/s
Volume Injected   : 1.000000 ul
Sample Amount     : 1.0000
Data Acquisition Time : 12/03/98 02:06:47 AM

Date              : 12/03/98 10:15:58 AM
Sample Name      : 19591 2000X
Study            : 9803.017
Rack/Vial        : 1/19
Channel          : A
A/D mV Range     : 1000
End Time         : 34.99 min

Area Reject      : 100.000000
Dilution Factor  : 2000.00
Cycle            : 19
    
```

```

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Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq
    
```



GC Pcb Soil Report

hp5890 1a RTX-5 30m 0.53mm 2ul Inj GC.14(8081) GC.73(8082)

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
	19.07	AR1254	214608	0.3598	239071.07	10.0	30.10
			214608	0.3598		10.0	30.10

12/03/98 10:15:58 AM Result:

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Group Report For : AR1254

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
22	16.95	Aroclor 1254-1	37908	0.3283	218118.65	10.0	30.10
30	18.72	Aroclor 1254-2	29273	0.3381	224638.66	10.0	30.10
32	19.07	Aroclor 1254-3	60625	0.3620	240503.38	10.0	30.10
38	20.75	Aroclor 1254-4	26202	0.3787	251638.55	10.0	30.10
43	21.74	Aroclor 1254-5	60599	0.3842	255301.65	10.0	30.10
			214608	1.7913		50.0	150.50

TEST CODE :SPCB0A1

JOB NUMBER :9803.017

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : ROY F. WESTON - EDISON

RESULTS IN DRY WEIGHT

%SOLIDS : 76.7%

TEST NAME : 8082 PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-98-19592

MATRIX : SOLID

SAMPLE ID CLIENT: DDSS1-A

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		52000
PCB-1254	250000		52000
PCB-1221	ND		100000
PCB-1232	ND		52000
PCB-1248	ND		52000
PCB-1260	ND		52000
PCB-1016	ND		52000

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

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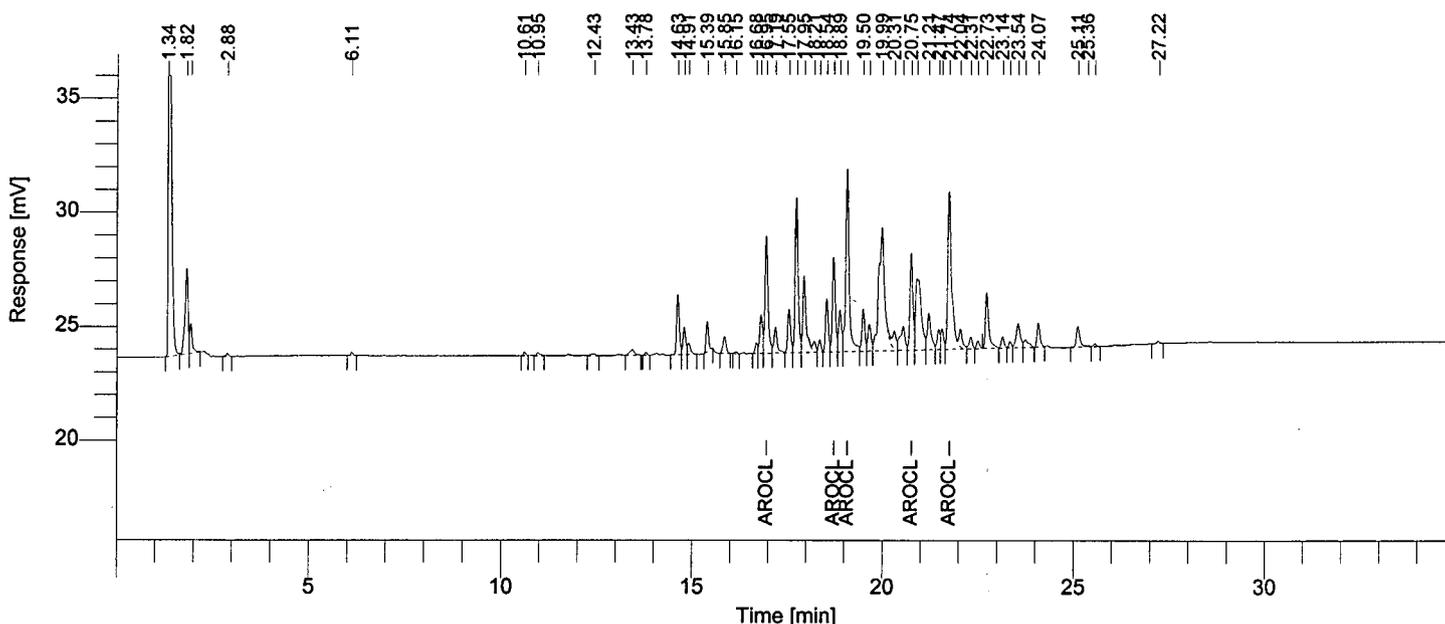
Software Version   : 6.1.0.2:G07
Operator          : SCHMITZR
Sample Number     : 020
AutoSampler      : HP7673A
Instrument Name   : HP58901A
Instrument Serial # : None
Delay Time       : 0.00 min
Sampling Rate    : 2.5000 pts/s
Volume Injected  : 1.000000 ul
Sample Amount    : 1.0000
Data Acquisition Time : 12/03/98 02:47:41 AM

Date              : 12/03/98 10:16:05 AM
Sample Name      : 19592 2000X
Study            : 9803.017
Rack/Vial       : 1/20
Channel         : A
A/D mV Range    : 1000
End Time        : 34.99 min

Area Reject     : 100.000000
Dilution Factor : 2000.00
Cycle           : 20
    
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Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq
    
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GC Pcb Soil Report

hp5890 1a RTX-5 30m 0.53mm 2ul Inj GC.14(8081) GC.73(8082)

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
	19.08	AR1254	173540	0.2909	192681.59	10.0	30.20
			173540	0.2909		10.0	30.20

12/03/98 10:16:05 AM Result:
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Group Report For : AR1254

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
19	16.95	Aroclor 1254-1	29039	0.2515	166531.39	10.0	30.20
27	18.72	Aroclor 1254-2	22506	0.2599	172135.30	10.0	30.20
29	19.08	Aroclor 1254-3	49890	0.2979	197262.34	10.0	30.20
35	20.75	Aroclor 1254-4	22661	0.3275	216917.71	10.0	30.20
40	21.74	Aroclor 1254-5	49443	0.3135	207612.19	10.0	30.20
			173540	1.4503		50.0	151.00

```

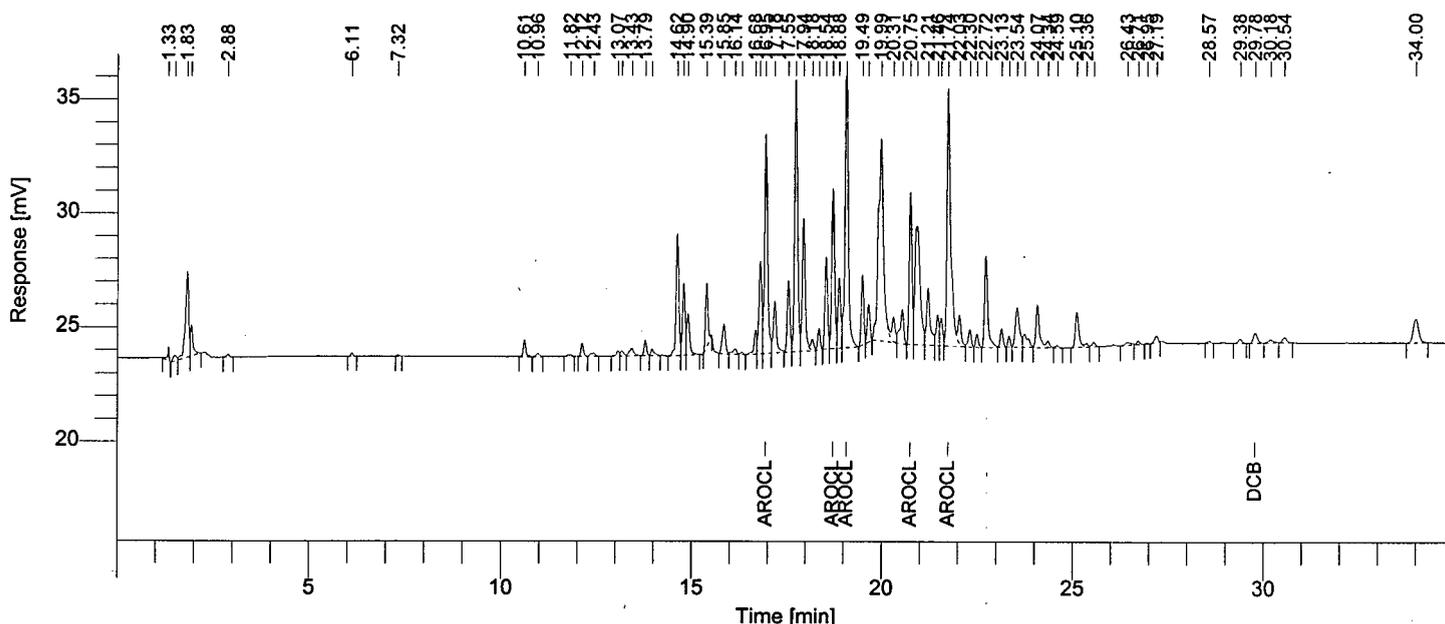
Software Version   : 6.1.0.2:G07
Operator          : SCHMITZR
Sample Number     : 021
AutoSampler      : HP7673A
Instrument Name   : HP58901A
Instrument Serial # : None
Delay Time       : 0.00 min
Sampling Rate    : 2.5000 pts/s
Volume Injected  : 1.000000 ul
Sample Amount    : 1.0000
Data Acquisition Time : 12/03/98 03:28:35 AM

Date              : 12/03/98 10:16:10 AM
Sample Name      : 19593 2000X
Study           : 9803.017
Rack/Vial       : 1/21
Channel         : A
A/D mV Range    : 1000
End Time        : 34.99 min

Area Reject      : 100.000000
Dilution Factor : 2000.00
Cycle           : 21
    
```

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Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq
    
```



GC Pcb Soil Report

hp5890 1a RTX-5 30m 0.53mm 2ul Inj GC.14(8081) GC.73(8082)

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
69	19.07	AR1254	277114	0.4646	307578.16	10.0	30.21
	29.78	DCB	3408	0.0014	915.67	10.0	30.21
			280521	0.4660		20.0	60.42

12/03/98 10:16:10 AM Result:

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Group Report For : AR1254

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
27	16.95	Aroclor 1254-1	53287	0.4614	305486.44	10.0	30.21
35	18.72	Aroclor 1254-2	36768	0.4246	281128.93	10.0	30.21
37	19.07	Aroclor 1254-3	75978	0.4536	300309.73	10.0	30.21
43	20.75	Aroclor 1254-4	33444	0.4834	320024.28	10.0	30.21
48	21.74	Aroclor 1254-5	77637	0.4923	325889.37	10.0	30.21
			277114	2.3154		50.0	151.05

TEST CODE :SPCB0A1

JOB NUMBER :9803.017

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : ROY F. WESTON - EDISON

RESULTS IN DRY WEIGHT

%SOLIDS : 71.6%

TEST NAME : 8082 PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-98-19594

MATRIX : SOLID

SAMPLE ID CLIENT: UUUSD1-A

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
PCB-1242	ND		280
PCB-1254	2100		280
PCB-1221	ND		560
PCB-1232	ND		280
PCB-1248	ND		280
PCB-1260	ND		280
PCB-1016	ND		280

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

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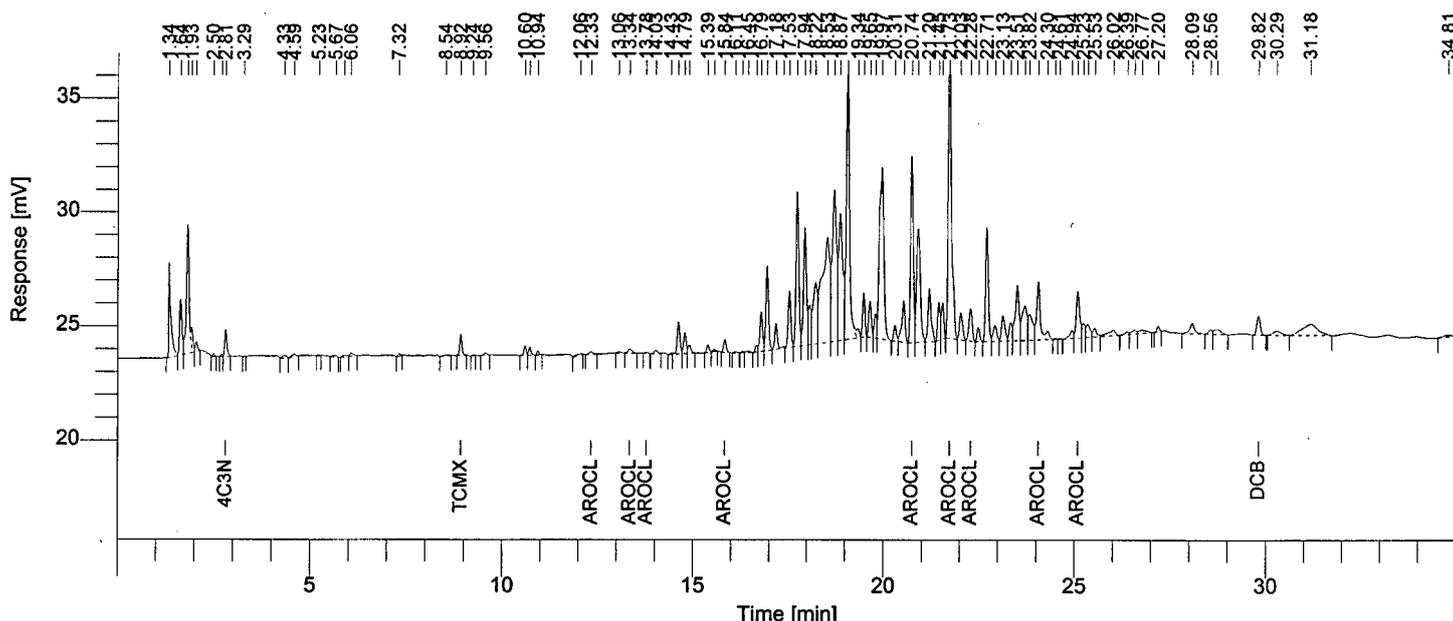
Software Version   : 6.1.0.2:G07
Operator          : SCHMITZR
Sample Number     : 011
AutoSampler      : HP7673A
Instrument Name   : HP58901A
Instrument Serial # : None
Delay Time       : 0.00 min
Sampling Rate    : 2.5000 pts/s
Volume Injected  : 1.000000 ul
Sample Amount    : 1.0000
Data Acquisition Time : 12/02/98 08:39:13 PM

Date              : 12/03/98 09:38:40 AM
Sample Name      : 19594 10X
Study            : 9803.017
Rack/Vial       : 1/11
Channel         : A
A/D mV Range    : 1000
End Time        : 34.99 min

Area Reject     : 100.000000
Dilution Factor : 10.00
Cycle           : 11
    
```

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Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq
    
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GC Pcb Soil Report

hp5890 1a RTX-5 30m 0.53mm · 2ul Inj GC.14(8081) GC.73(8082)

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
8	2.81	4C3N	4562	-0.0264	-87.63	10.0	30.09
18	8.92	TCMX	3630	0.0016	5.33	10.0	30.09
	15.84	AR1016	5182	0.0105	34.82	10.0	30.09
	21.73	AR1260	154207	0.2011	668.26	10.0	30.09
94	29.82	DCB	5142	0.0020	6.78	10.0	30.09
			172724	0.1888		50.0	150.45

12/03/98 09:38:40 AM Result:

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Group Report For : AR1016

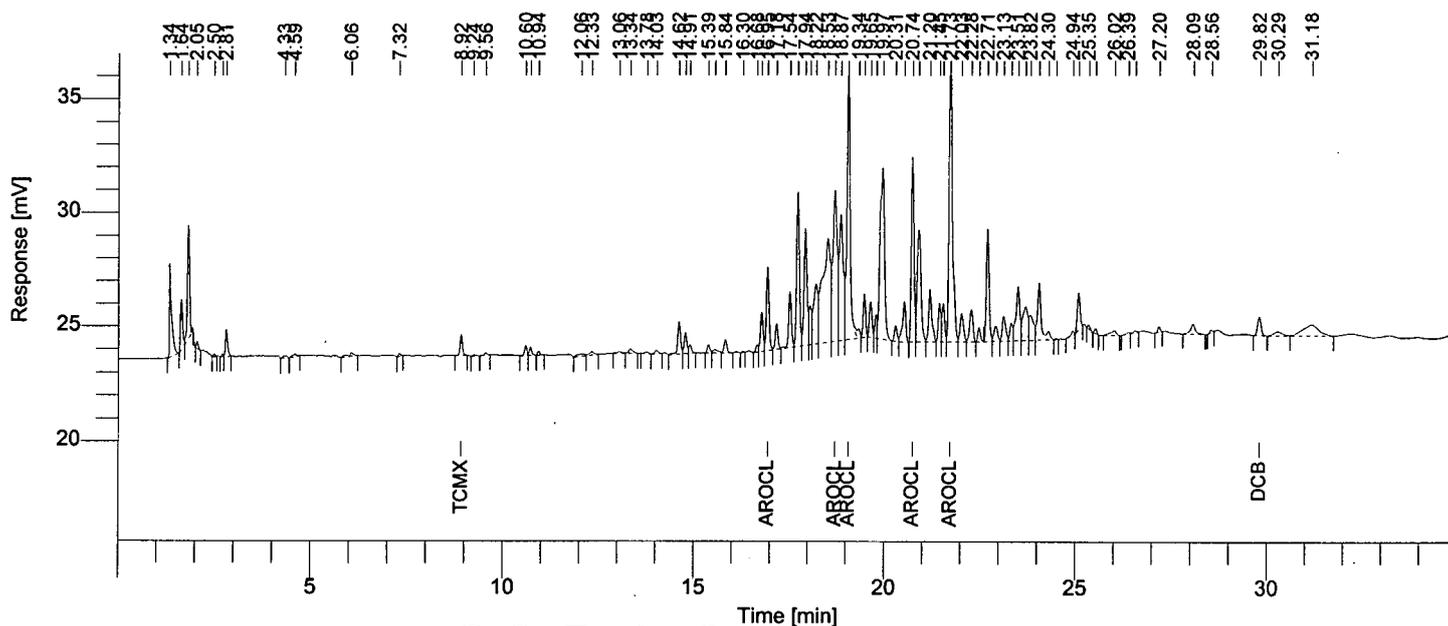
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
-	10.26	Aroclor 1016-1	0	0.0000	0.00	10.0	30.09
25	12.33	Aroclor 1016-2	766	0.0111	36.86	10.0	30.09
27	13.34	Aroclor 1016-3	1364	0.0065	21.45	10.0	30.09
28	13.78	Aroclor 1016-4	418	0.0045	15.01	10.0	30.09
36	15.84	Aroclor 1016-5	2634	0.0386	128.28	10.0	30.09
			5182	0.0607		50.0	150.45

Group Report For : AR1260

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
61	20.74	Aroclor 1260-1	39911	0.2805	932.07	10.0	30.09
66	21.73	Aroclor 1260-2	77440	0.4125	1370.78	10.0	30.09
68	22.28	Aroclor 1260-3	8367	0.0824	273.88	10.0	30.09
77	24.05	Aroclor 1260-4	15834	0.0746	248.08	10.0	30.09
82	25.09	Aroclor 1260-5	12655	0.1027	341.40	10.0	30.09
			154207	0.9527		50.0	150.45

Software Version	: 6.1.0.2:G07	Date	: 12/03/98 10:15:14 AM
Operator	: SCHMITZR	Sample Name	: 19594 10X
Sample Number	: 011	Study	: 9803.017
AutoSampler	: HP7673A	Rack/Vial	: 1/11
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.99 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 10.00
Sample Amount	: 1.0000	Cycle	: 11
Data Acquisition Time	: 12/02/98 08:39:13 PM		

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GC Pcb Soil Report

hp5890 1a RTX-5 30m 0.53mm 2ul Inj GC.14(8081) GC.73(8082)

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
12	8.92	TCMX	3649	0.0017	5.60	10.0	30.09
	21.73	AR1254	262461	0.4400	1462.38	10.0	30.09
80	29.82	DCB	5149	0.0021	6.94	10.0	30.09
			271259	0.4438		30.0	90.27

12/03/98 10:15:14 AM Result:

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Group Report For : AR1254

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
33	16.95	Aroclor 1254-1	18053	0.1563	519.53	10.0	30.09
41	18.72	Aroclor 1254-2	53223	0.6147	2042.85	10.0	30.09
43	19.07	Aroclor 1254-3	71727	0.4282	1423.20	10.0	30.09
51	20.74	Aroclor 1254-4	39573	0.5720	1900.91	10.0	30.09
56	21.73	Aroclor 1254-5	79885	0.5065	1683.31	10.0	30.09
			262461	2.2778		50.0	150.45

TEST CODE :SPCB0A1

JOB NUMBER :9803.017

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : ROY F. WESTON - EDISON

RESULTS IN DRY WEIGHT

%SOLIDS : 78.1%

TEST NAME : 8082 PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-98-19595

MATRIX : SOLID

SAMPLE ID CLIENT: UUUSD3-A

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
PCB-1242	ND		260
PCB-1254	1200		260
PCB-1221	ND		510
PCB-1232	ND		260
PCB-1248	ND		260
PCB-1260	ND		260
PCB-1016	ND		260

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

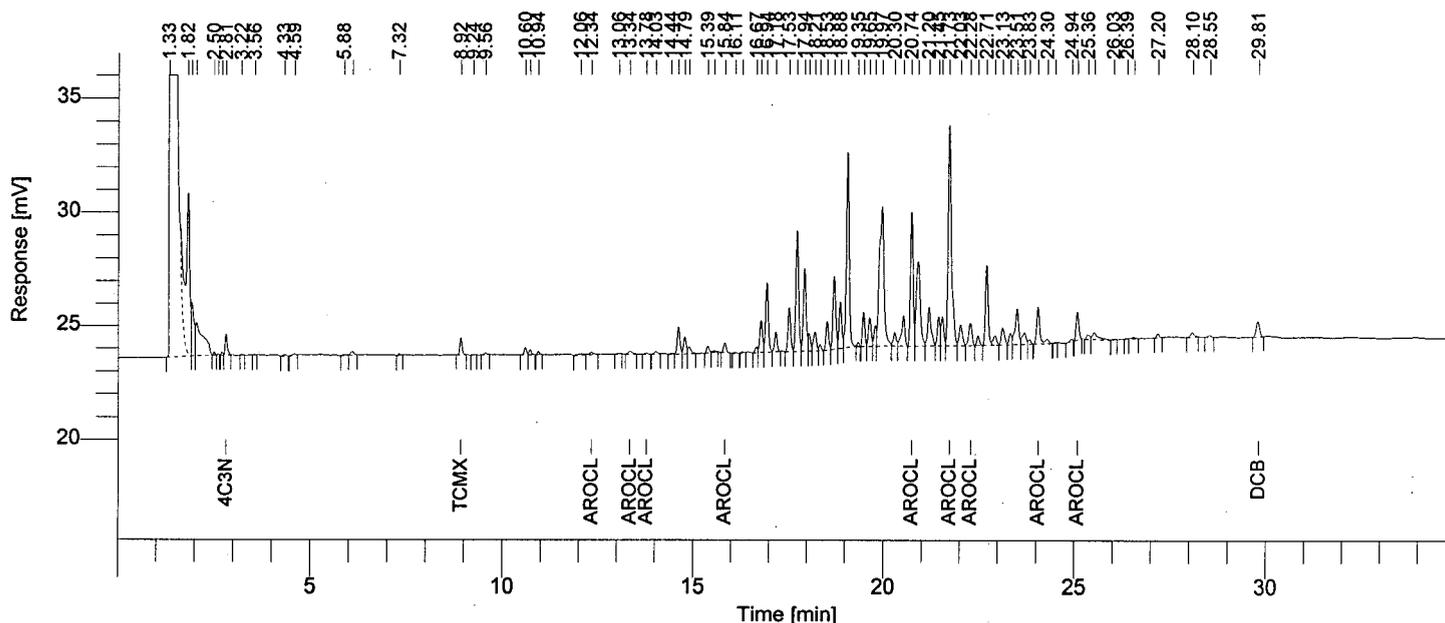
J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

Software Version	: 6.1.0.2:G07	Date	: 12/03/98 09:38:46 AM
Operator	: SCHMITZR	Sample Name	: 19595 10X
Sample Number	: 012	Study	: 9803.017
AutoSampler	: HP7673A	Rack/Vial	: 1/12
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.99 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 10.00
Sample Amount	: 1.0000	Cycle	: 12
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GC Pcb Soil Report

hp5890 1a RTX-5 30m 0.53mm 2ul Inj GC.14(8081) GC.73(8082)

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
8	2.81	4C3N	3683	-0.0273	-89.97	10.0	30.35
16	8.92	TCMX	3020	0.0013	4.40	10.0	30.35
	15.84	AR1016	4097	0.0083	27.29	10.0	30.35
	21.73	AR1260	109206	0.1424	469.19	10.0	30.35
87	29.81	DCB	4198	0.0017	5.49	10.0	30.35
			124204	0.1264		50.0	151.75

12/03/98 09:38:46 AM Result:
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Group Report For : AR1016

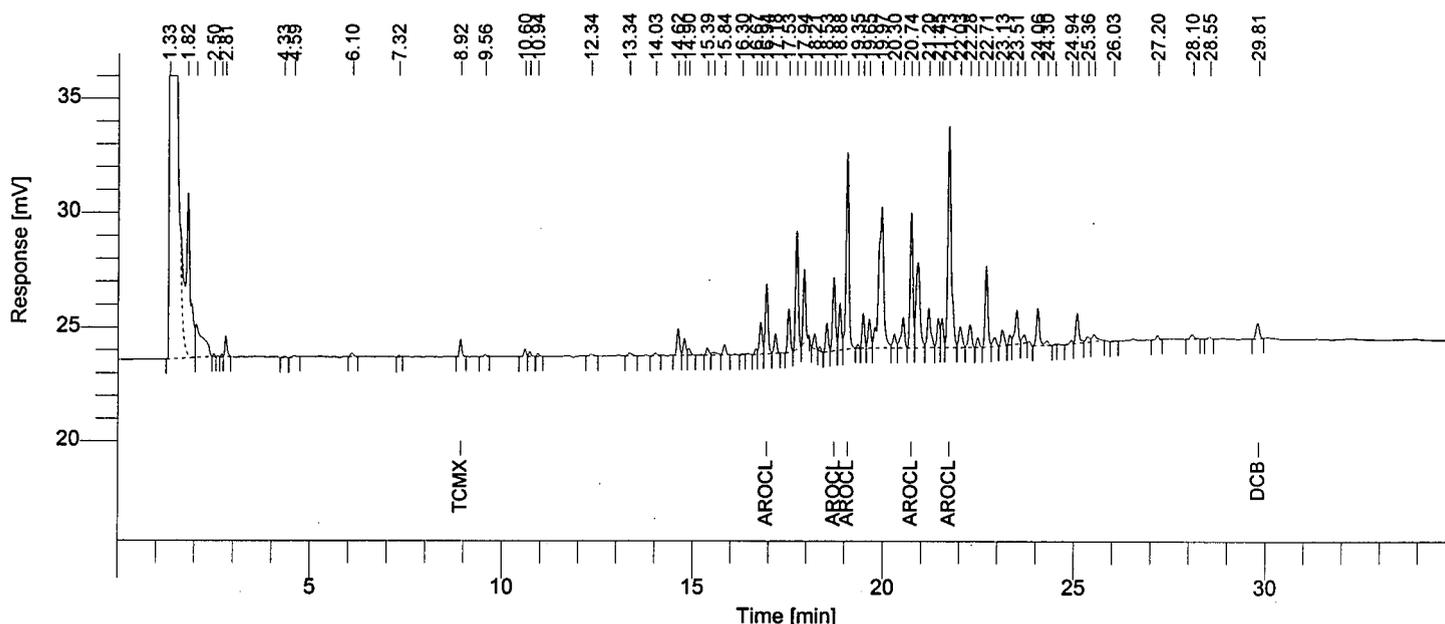
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
-	10.26	Aroclor 1016-1	0	0.0000	0.00	10.0	30.35
23	12.34	Aroclor 1016-2	810	0.0117	38.66	10.0	30.35
25	13.34	Aroclor 1016-3	927	0.0044	14.45	10.0	30.35
26	13.78	Aroclor 1016-4	303	0.0033	10.77	10.0	30.35
34	15.84	Aroclor 1016-5	2058	0.0302	99.36	10.0	30.35
			4097	0.0495		50.0	151.75

Group Report For : AR1260

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
58	20.74	Aroclor 1260-1	29304	0.2059	678.49	10.0	30.35
63	21.73	Aroclor 1260-2	58837	0.3134	1032.56	10.0	30.35
65	22.28	Aroclor 1260-3	6058	0.0597	196.60	10.0	30.35
74	24.05	Aroclor 1260-4	8837	0.0417	137.27	10.0	30.35
78	25.09	Aroclor 1260-5	6171	0.0501	165.04	10.0	30.35
			109206	0.6707		50.0	151.75

Software Version	: 6.1.0.2:G07	Date	: 12/03/98 10:15:21 AM
Operator	: SCHMITZR	Sample Name	: 19595 10X
Sample Number	: 012	Study	: 9803.017
AutoSampler	: HP7673A	Rack/Vial	: 1/12
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.99 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 10.00
Sample Amount	: 1.0000	Cycle	: 12
Data Acquisition Time	: 12/02/98 09:20:11 PM		

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Calib Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1254_1124.mth
Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq



GC Pcb Soil Report

hp5890 1a RTX-5 30m 0.53mm 2ul Inj GC.14(8081) GC.73(8082)

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
11	8.92	TCMX	3036	0.0014	4.62	10.0	30.35
	21.73	AR1254	164441	0.2757	908.39	10.0	30.35
71	29.81	DCB	4198	0.0017	5.61	10.0	30.35
			171674	0.2788		30.0	91.05

12/03/98 10:15:21 AM Result:

\\gcsrv1\TCDData\hp58901\DEC\12-02\hp1a_981202370r_012.rst

Group Report For : AR1254

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
28	16.94	Aroclor 1254-1	15426	0.1336	440.14	10.0	30.35
36	18.72	Aroclor 1254-2	16712	0.1930	635.95	10.0	30.35
38	19.07	Aroclor 1254-3	44060	0.2631	866.74	10.0	30.35
45	20.74	Aroclor 1254-4	29393	0.4248	1399.82	10.0	30.35
50	21.73	Aroclor 1254-5	58850	0.3731	1229.45	10.0	30.35
			164441	1.3876		50.0	151.75

TEST CODE :SPCB0A1

JOB NUMBER :9803.017

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : ROY F. WESTON - EDISON

RESULTS IN DRY WEIGHT

%SOLIDS : 52.1%

TEST NAME : 8082 PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-98-19596

MATRIX : SOLID

SAMPLE ID CLIENT: PPPND2-A

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		38000
PCB-1254	250000		38000
PCB-1221	ND		77000
PCB-1232	ND		38000
PCB-1248	ND		38000
PCB-1260	ND		38000
PCB-1016	ND		38000

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

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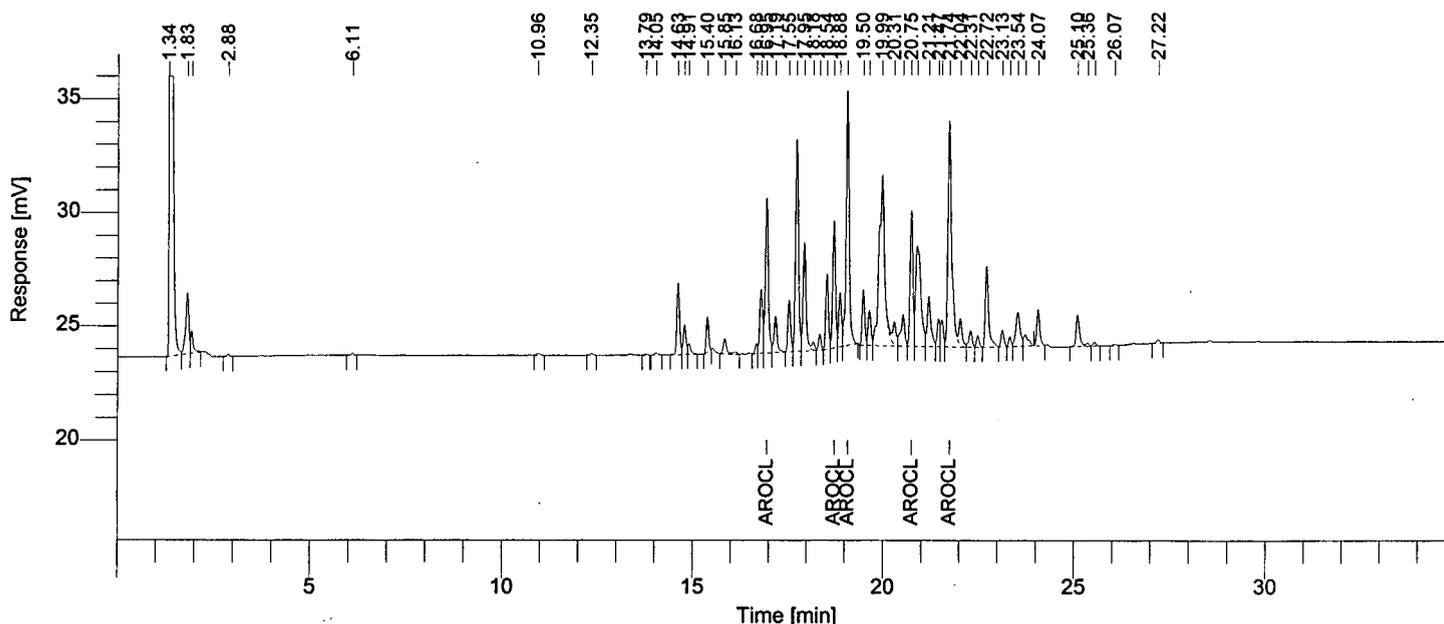
Software Version   : 6.1.0.2:G07
Operator          : SCHMITZR
Sample Number     : 022
AutoSampler      : HP7673A
Instrument Name   : HP58901A
Instrument Serial # : None
Delay Time       : 0.00 min
Sampling Rate    : 2.5000 pts/s
Volume Injected  : 1.000000 ul
Sample Amount    : 1.0000
Data Acquisition Time : 12/03/98 04:09:33 AM

Date             : 12/03/98 10:16:15 AM
Sample Name      : 19596 1000X
Study           : 9803.017
Rack/Vial       : 1/22
Channel         : A
A/D mV Range    : 1000
End Time        : 34.99 min

Area Reject     : 100.000000
Dilution Factor : 1000.00
Cycle           : 22
    
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Calib Method  : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1254_1124.mth
Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq
    
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GC Pcb Soil Report

hp5890 1a RTX-5 30m 0.53mm 2ul Inj GC.14(8081) GC.73(8082)

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
	19.08	AR1254	229528	0.3848	128016.50	10.0	30.06
			229528	0.3848		10.0	30.06

12/03/98 10:16:15 AM Result:

\\gcsrv1\TCData\hp58901\DEC\12-02\hp1a_981202370r_022.rst

Group Report For : AR1254

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
18	16.95	Aroclor 1254-1	38404	0.3326	110632.86	10.0	30.06
26	18.72	Aroclor 1254-2	29083	0.3359	111739.46	10.0	30.06
28	19.08	Aroclor 1254-3	62776	0.3748	124683.52	10.0	30.06
34	20.75	Aroclor 1254-4	30631	0.4427	147284.72	10.0	30.06
39	21.74	Aroclor 1254-5	68634	0.4352	144767.97	10.0	30.06
			229528	1.9212		50.0	150.30

soiling and environmental

Project No. _____
 Book No. 1311 TITLE _____

50

From Page No. _____ 98112430 SP
 Test Performed: POB
 Method Number: SW-846, 3550B
 Date: 11-24-98
 Work Performed: 900milling
 Job No. _____ ID No. _____
Box - P 547
BAL - 1098-4-16

	Amount	SOLVENT	INTER. VOL	DATE	SIGN	F. Vol	DATE	SIGN	
BLANK	1311-50-1	30.25	1:1	10.0	11/24/98	JT	5.0	12/2/98	JTB
LCS	1311-50-2	30.23	ACETONE						
9803.017	19591.01	30.10	+						
	19592.01, 3200	30.20	MELLS						
	19593.01, 3200	30.21	3x 100 ml						
	19594.01, 3200	30.09							
	19595.01, 3200	30.35							
	19596.01, 3200	30.06							
9803.017	19594.01	30.14							
	MSD 19594.01	30.12							

1.0 ml Succinyl 1245-43-3 Ex. 1-1-99
 1.0 ml PCB Spike 1245-98-1 Ex. 1-4-30-99
 ACETONE - M25588
 METH-CHLOR - M11884
 Na2S2O4 - M19635
 WITNESS: Rosalind L Brown

To Page No. _____

Witnessed & Understood by me,	Date	Invented by	Date
		Recorded by	

7A

PCB CONTINUING CALIBRATION VERIFICATION

Lab Name: E & E INC.

Contract:

Instrument: HP58901 A

ICAL Date(s) Analyzed:

Column: RTX-5

11/24/98

to:

11/25/98

CCV ID: AR1660 1202 M1

Date/Time:

12/2/98

2:37 PM

COMPOUND	RT	INITIAL WINDOW		Calc Amt.(ng)	Expected Amt.(ng)	% D
		From	To			
TCMX	8.96	13.36	13.46	0.0206	0.0200	3.0
AR1016	13.44	10.19	10.33	0.1969	0.200	-1.6
AR1260	24.08	20.68	20.82	0.1909	0.200	-4.6
DCB	29.84	29.72	29.92	0.0214	0.0200	7.0

Ave %D = 4.0

* Value >15.0% Difference

FORM VII PCB

7A

PCB CONTINUING CALIBRATION VERIFICATION

Lab Name: E & E INC.

Contract:

Instrument: HP58901 A

ICAL Date(s) Analyzed:

Column: RTX-5

11/25/98 to: 11/25/98

CCV ID: AR1254 1202 M1

Date/Time: 12/2/98 3:18 PM

COMPOUND	RT	INITIAL WINDOW		Calc Amt.(ng)	Expected Amt.(ng)	% D
		From	To			
AR1254	16.96	16.89	17.03	0.212	0.200	5.8

* Value >15.0% Difference

FORM VII PCB

7A

PCB CONTINUING CALIBRATION VERIFICATION

Lab Name: E & E INC.

Contract:

Instrument: HP58901 A

ICAL Date(s) Analyzed:

Column: RTX-5

11/24/98

to:

11/25/98

CCV ID: AR1660 1202 M2

Date/Time:

12/3/98

12:44 AM

COMPOUND	RT	INITIAL WINDOW		Calc Amt.(ng)	Expected Amt.(ng)	% D
		From	To			
TCMX	8.92	13.36	13.46	0.0209	0.0200	4.5
AR1016	13.41	10.19	10.33	0.2018	0.200	0.9
AR1260	24.06	20.68	20.82	0.1985	0.200	-0.8
DCB	29.82	29.72	29.92	0.0228	0.0200	14.0

Ave %D = 5.0

* Value >15.0% Difference

FORM VII PCB

7A

PCB CONTINUING CALIBRATION VERIFICATION

Lab Name: E & E INC.

Contract:

Instrument: HP58901 A

ICAL Date(s) Analyzed:

Column: RTX-5

11/25/98 to: 11/25/98

CCV ID: AR1254 1202 M2

Date/Time: 12/3/98 1:25 AM

COMPOUND	RT	INITIAL WINDOW		Calc Amt.(ng)	Expected Amt.(ng)	% D
		From	To			
AR1254	16.95	16.89	17.03	0.213	0.200	6.3

* Value >15.0% Difference

FORM VII PCB

7A

PCB CONTINUING CALIBRATION VERIFICATION

Lab Name: E & E INC.

Contract:

Instrument: HP58901 A

ICAL Date(s) Analyzed:

Column: RTX-5

11/24/98

to:

11/25/98

CCV ID: AR1660 1202 M3

Date/Time:

12/3/98

5:31 AM

COMPOUND	RT	INITIAL WINDOW		Calc Amt.(ng)	Expected Amt.(ng)	% D
		From	To			
TCMX	8.93	13.36	13.46	0.0210	0.0200	5.0
AR1016	13.41	10.19	10.33	0.2024	0.200	1.2
AR1260	24.07	20.68	20.82	0.2002	0.200	0.1
DCB	29.82	29.72	29.92	0.0227	0.0200	13.5

Ave %D = 5.0

* Value >15.0% Difference

FORM VII PCB

7A

PCB CONTINUING CALIBRATION VERIFICATION

Lab Name: E & E INC.

Contract:

Instrument: HP58901 A

ICAL Date(s) Analyzed:

Column: RTX-5

11/25/98

to:

11/25/98

CCV ID: AR1254 1202 M3

Date/Time: 12/3/98 6:12 AM

COMPOUND	RT	INITIAL WINDOW		Calc Amt.(ng)	Expected Amt.(ng)	% D
		From	To			
AR1254	16.95	16.89	17.03	0.216	0.200	7.8

* Value >15.0% Difference

FORM VII PCB

Software Version	: 6.1.0.2:G07	Date	: 12/02/98 01:19:45 PM
Operator	: PFALZERJ	Sample Name	: HEXANE
Sample Number	: 001	Study	:
AutoSampler	: HP7673A	Rack/Vial	: 1/1
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.99 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 1
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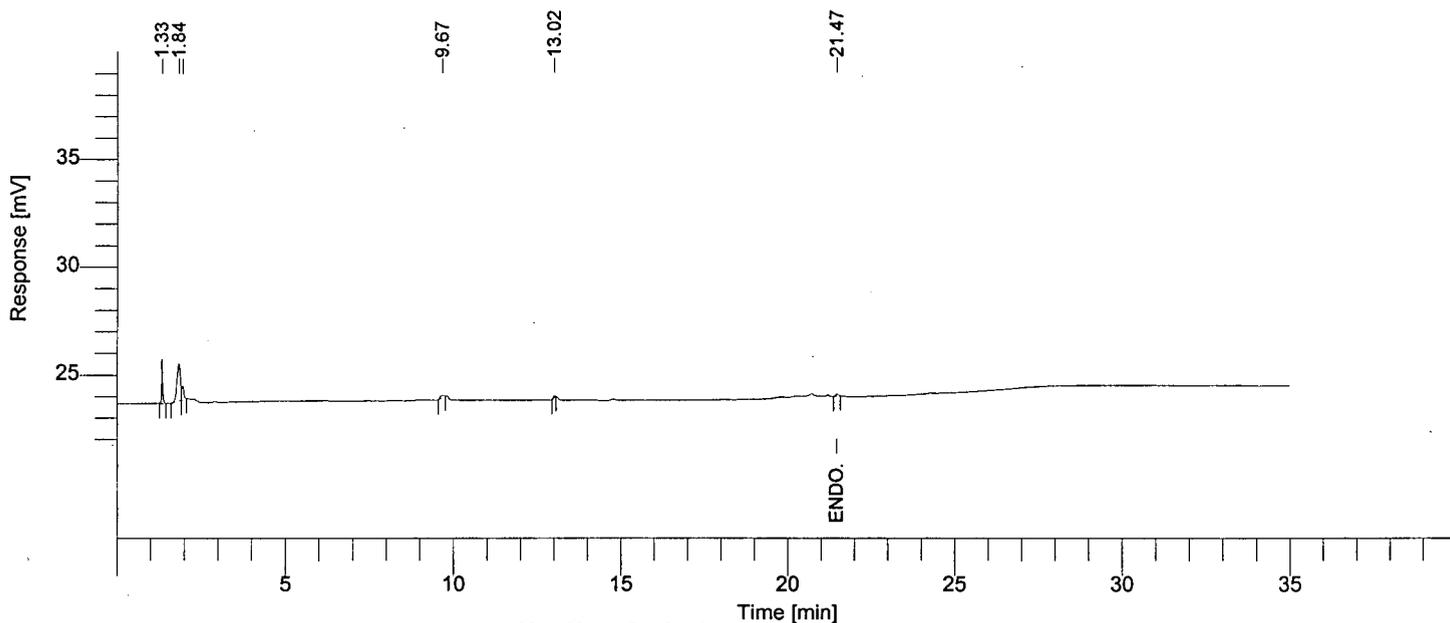
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Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq



GC 8081 Report

HP5890 1A RTX-5 30m 0.53mm 2ul Inj method 8081

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount (ug/ml)
6	21.47	Endo. sulfate	529	0.0003

Software Version	: 6.1.0.2:G07	Date	: 12/02/98 01:19:49 PM
Operator	: PFALZERJ	Sample Name	: HEXANE
Sample Number	: 002	Study	:
AutoSampler	: HP7673A	Rack/Vial	: 1/2
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.99 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 2
Data Acquisition Time	: 12/02/98 12:19:11 PM		

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Result File : \\gcsrv1\TCData\hp58901\DEC\12-02\hp1a_981202370r_002.rst

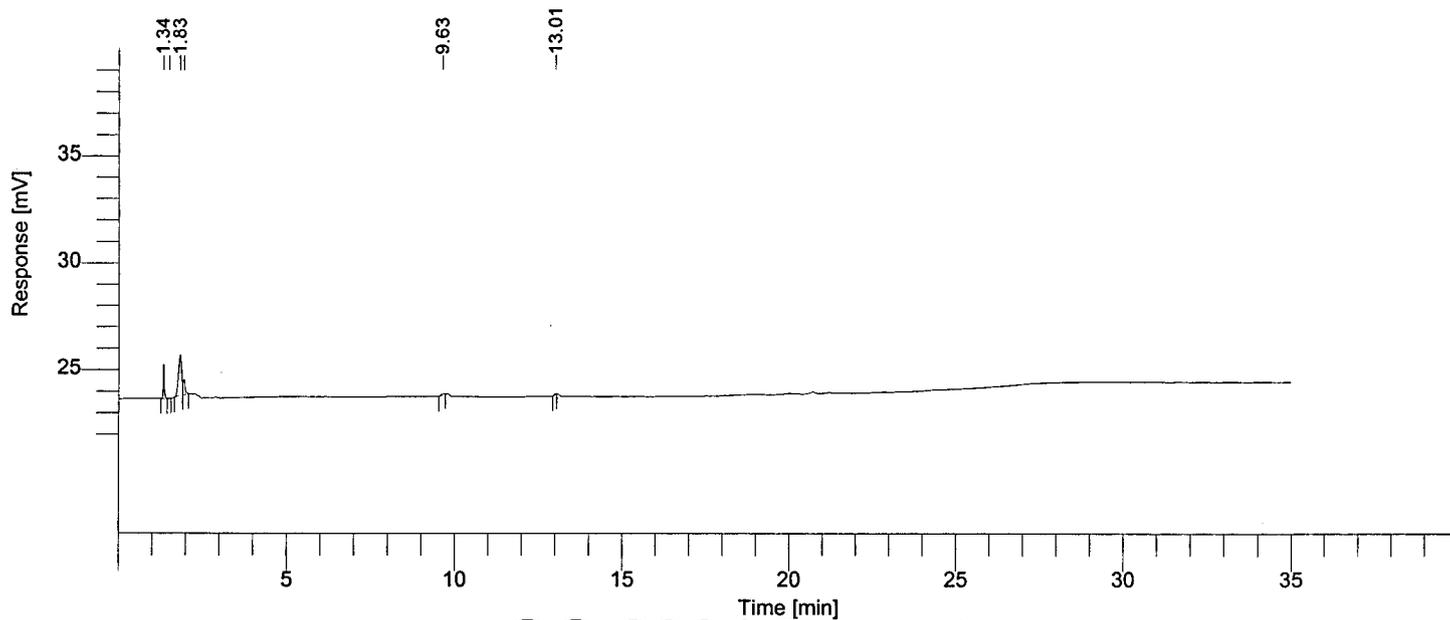
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Calib Method : \\gcsrv1\TCData\hp58901\methods\nov\11-23\hp1a_1123.mth

Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq



GC 8081 Report

HP5890 1A RTX-5 30m 0.53mm 2ul Inj method 8081

No peaks available to report

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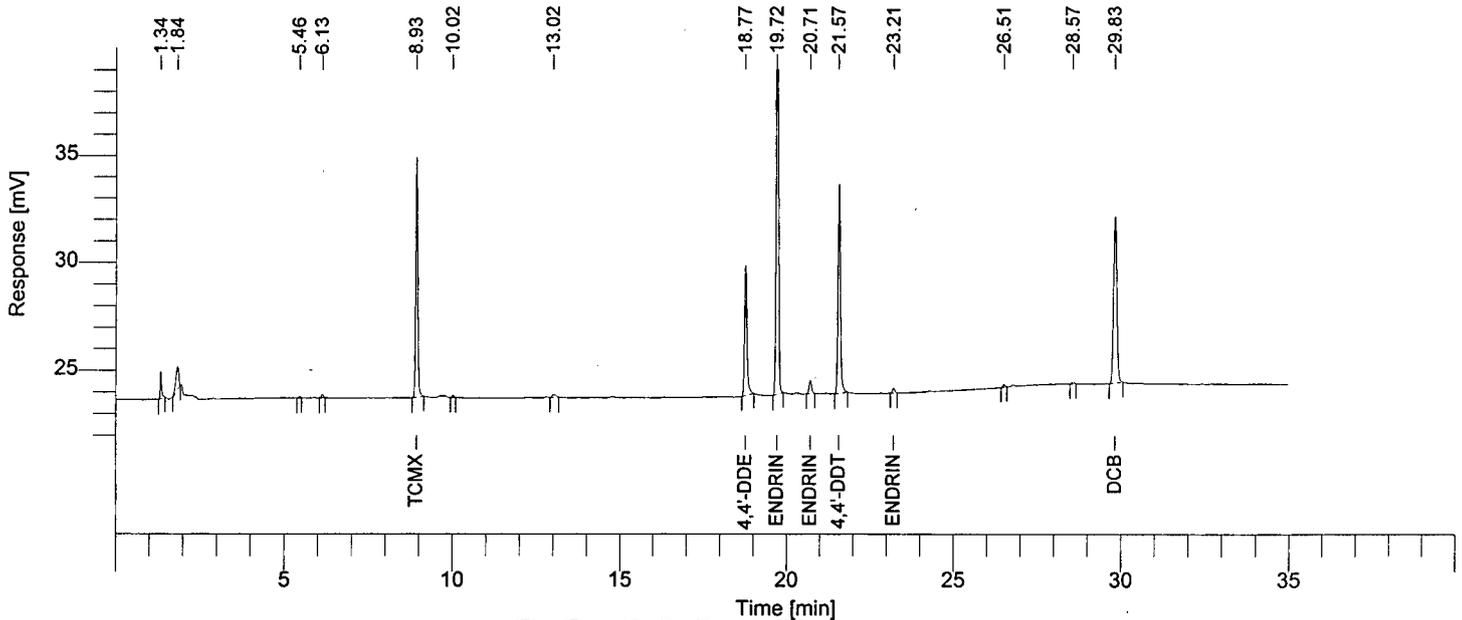
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Operator          : PFALZERJ             Sample Name : EVAL
Sample Number     : 003                  Study       :
AutoSampler       : HP7673A             Rack/Vial   : 1/3
Instrument Name    : HP58901A           Channel     : A
Instrument Serial # : None                A/D mV Range : 1000
Delay Time        : 0.00 min            End Time    : 34.99 min
Sampling Rate     : 2.5000 pts/s
Volume Injected   : 1.000000 ul         Area Reject  : 100.000000
Sample Amount     : 1.0000              Dilution Factor : 1.00
Data Acquisition Time : 12/02/98 01:00:05 PM Cycle   : 3

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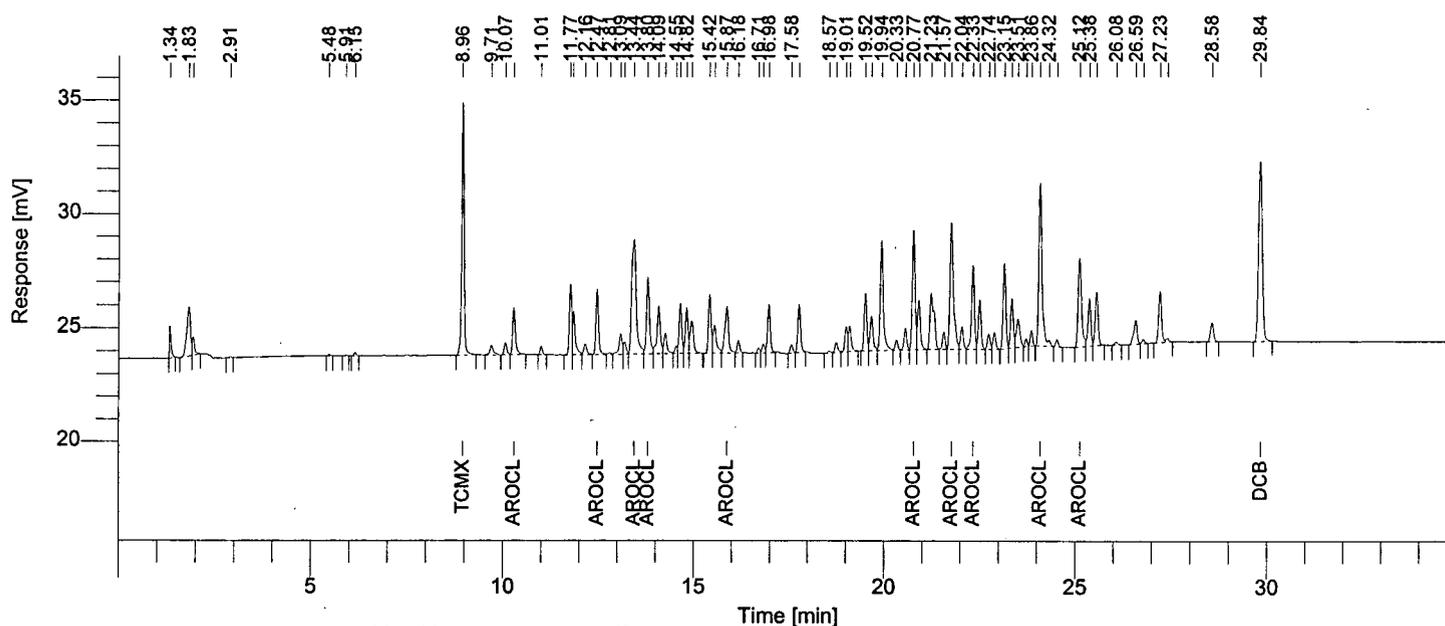
GC 8081 Report

HP5890 1A RTX-5 30m 0.53mm 2ul Inj method 8081

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount (ug/ml)
5	8.93	TCMX	46027	0.0205
8	18.77	4,4'-DDE	30325	0.0170
9	19.72	Endrin	95667	0.0541
10	20.71	Endrin aldehyde	3100	0.0020
11	21.57	4,4'-DDT	47846	0.0315
12	23.21	Endrin ketone	1065	0.0005
15	29.83	DCB	53070	0.0215

Software Version	: 6.1.0.2:G07	Date	: 12/02/98 04:01:17 PM
Operator	: NEARYR	Sample Name	: AR1660 1202 M1
Sample Number	: 004	Study	:
AutoSampler	: HP7673A	Rack/Vial	: 1/4
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.99 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 4
Data Acquisition Time	: 12/02/98 02:37:56 PM		

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 Proc Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
 Calib Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
 Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq



GC Pcb Continuing Report

HP5890 1A RTX-5 30m 0.53mm 2ul Inj method 8081

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
8	8.96	TCMX	46585	0.0206	0.020	3.0
	13.44	AR1016	97364	0.1969	0.200	-1.6
	24.08	AR1260	146367	0.1909	0.200	-4.6
73	29.84	DCB	53989	0.0214	0.020	7.1
			344306	0.4297		

12/02/98 04:01:17 PM Result:

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Group Report For : AR1016

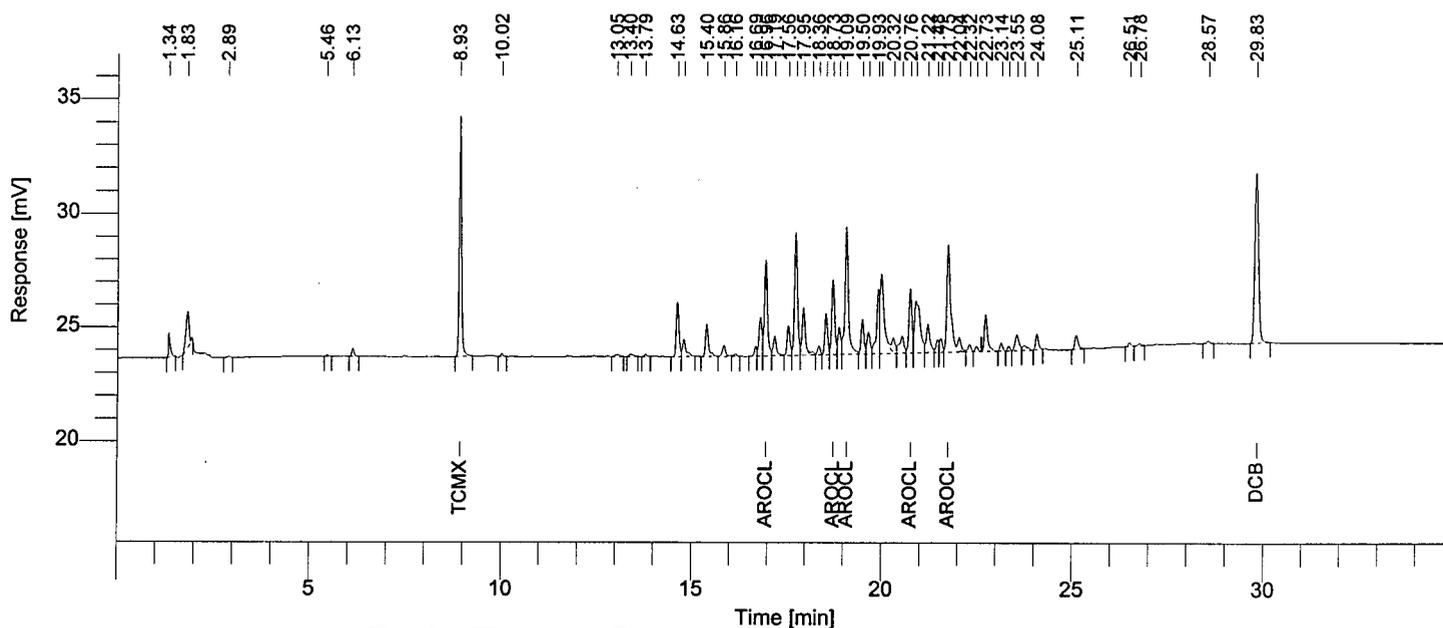
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
11	10.29	Aroclor 1016-1	10501	0.1969	0.000	----
16	12.47	Aroclor 1016-2	13600	0.1969	0.000	----
20	13.44	Aroclor 1016-3	41561	0.1967	0.000	----
21	13.80	Aroclor 1016-4	18257	0.1971	0.000	----
30	15.87	Aroclor 1016-5	13444	0.1970	0.000	----
			97364	0.9847		

Group Report For : AR1260

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
46	20.77	Aroclor 1260-1	26691	0.1876	0.000	----
50	21.76	Aroclor 1260-2	35415	0.1886	0.000	----
52	22.33	Aroclor 1260-3	19363	0.1907	0.000	----
61	24.08	Aroclor 1260-4	40832	0.1925	0.000	----
64	25.12	Aroclor 1260-5	24065	0.1953	0.000	----
			146367	0.9548		

Software Version	: 6.1.0.2:G07	Date	: 12/02/98 04:01:22 PM
Operator	: NEARYR	Sample Name	: AR1254 1202 M1
Sample Number	: 005	Study	:
AutoSampler	: HP7673A	Rack/Vial	: 1/5
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.99 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 5
Data Acquisition Time	: 12/02/98 03:18:50 PM		

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 Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq



GC Pcb Continuing Report

HP5890 1A RTX-5 30m 0.53mm 2ul Inj method 8081

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
6	8.93	TCMX	43435	0.0201	0.020	0.3
	19.09	AR1254	126198	0.2116	0.200	5.8
54	29.83	DCB	51965	0.0211	0.020	5.5
			221597	0.2527		

12/02/98 04:01:22 PM Result:

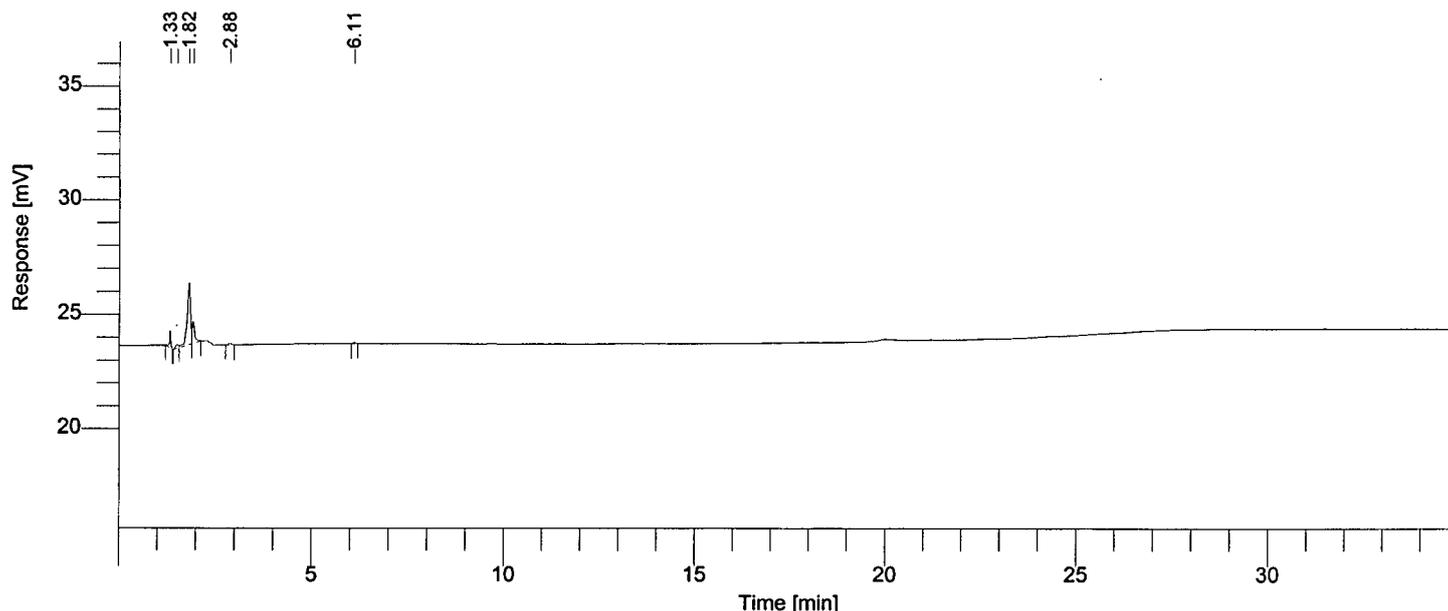
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Group Report For : AR1254

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
18	16.96	Aroclor 1254-1	23878	0.2068	0.000	-----
26	18.73	Aroclor 1254-2	18065	0.2086	0.000	-----
28	19.09	Aroclor 1254-3	35490	0.2119	0.000	-----
35	20.76	Aroclor 1254-4	15034	0.2173	0.000	-----
40	21.75	Aroclor 1254-5	33731	0.2139	0.000	-----
			126198	1.0585		

Software Version	: 6.1.0.2:G07	Date	: 12/03/98 09:39:12 AM
Operator	: SCHMITZR	Sample Name	: HEXANE
Sample Number	: 016	Study	:
AutoSampler	: HP7673A	Rack/Vial	: 1/16
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.99 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 16
Data Acquisition Time	: 12/03/98 12:03:58 AM		

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Result File : \\gcsrv1\TCData\hp58901\DEC\12-02\hp1a_981202370r_016.rst
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\\gcsrv1\TCData\hp58901\DEC\12-02\hp1a_981202370r_016.rst
Proc Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
Calib Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq



GC Pcb Report

HP5890 1A RTX-5 30m 0.53mm 2ul Inj method 8081

No peaks available to report

Group Report For : AR1016

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
-	10.26	Aroclor 1016-1	0	0.0000
-	12.44	Aroclor 1016-2	0	0.0000
-	13.41	Aroclor 1016-3	0	0.0000
-	13.77	Aroclor 1016-4	0	0.0000
-	15.85	Aroclor 1016-5	0	0.0000
			0	0.0000

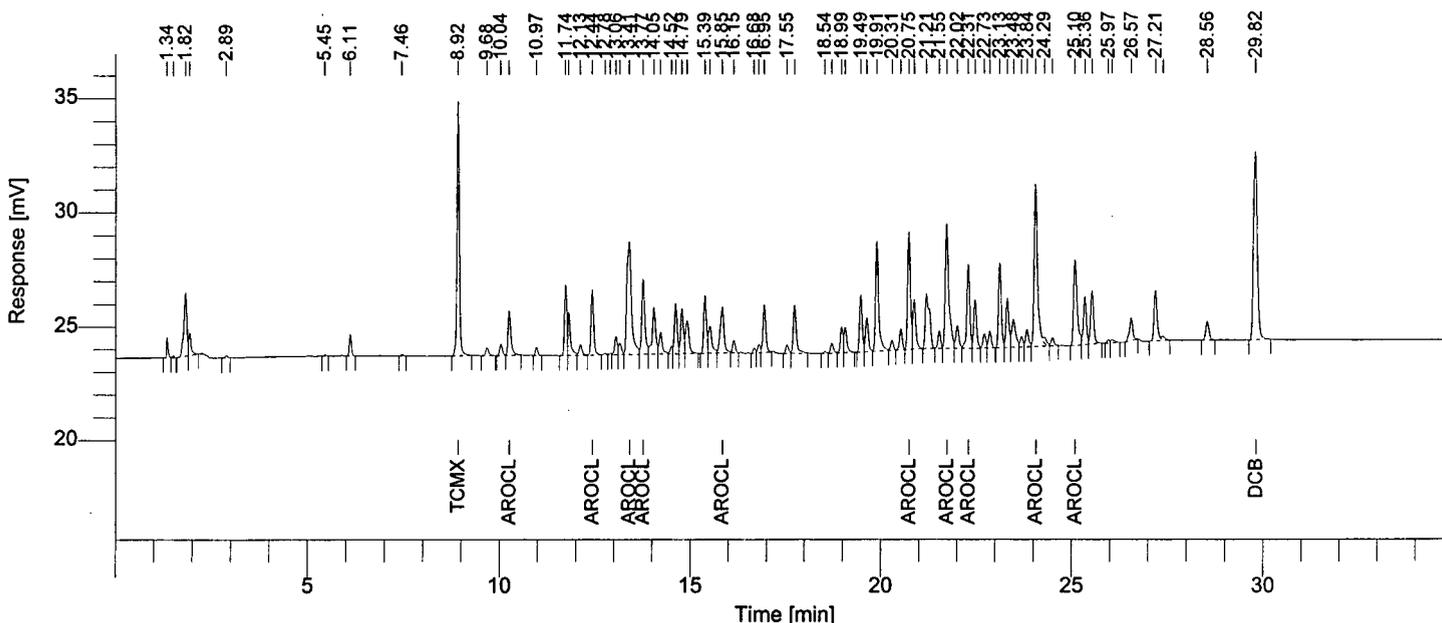
12/03/98 09:39:12 AM Result:
\\gcsrv1\TCData\hp58901\DEC\12-02\hp1a_981202370r_016.rst

Group Report For : AR1260

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
-	20.75	Aroclor 1260-1	0	0.0000
-	21.74	Aroclor 1260-2	0	0.0000
-	22.31	Aroclor 1260-3	0	0.0000
-	24.06	Aroclor 1260-4	0	0.0000
-	25.10	Aroclor 1260-5	0	0.0000
			0	0.0000

Software Version	: 6.1.0.2:G07	Date	: 12/03/98 09:39:17 AM
Operator	: SCHMITZR	Sample Name	: AR1660 1202 M2
Sample Number	: 017	Study	: CCV
AutoSampler	: HP7673A	Rack/Vial	: 1/17
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.99 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 17
Data Acquisition Time	: 12/03/98 12:44:55 AM		

Raw Data File : \\gcsrv1\TCData\hp58901\DEC\12-02\hp1a_981202370r_017.raw
 Result File : \\gcsrv1\TCData\hp58901\DEC\12-02\hp1a_981202370r_017.rst
 Inst Method : \\gcsrv1\TCData\Hp58901\hp1_rtx5 from
 \\gcsrv1\TCData\hp58901\DEC\12-02\hp1a_981202370r_017.rst
 Proc Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
 Calib Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
 Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq



GC Pcb Continuing Report

HP5890 1A RTX-5 30m 0.53mm 2ul Inj method 8081

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
9	8.92	TCMX	47177	0.0209	0.020	4.3
	13.41	AR1016	99790	0.2018	0.200	0.9
	24.06	AR1260	152249	0.1985	0.200	-0.7
75	29.82	DCB	57383	0.0228	0.020	13.8
			356599	0.4439		

12/03/98 09:39:17 AM Result:

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Group Report For : AR1016

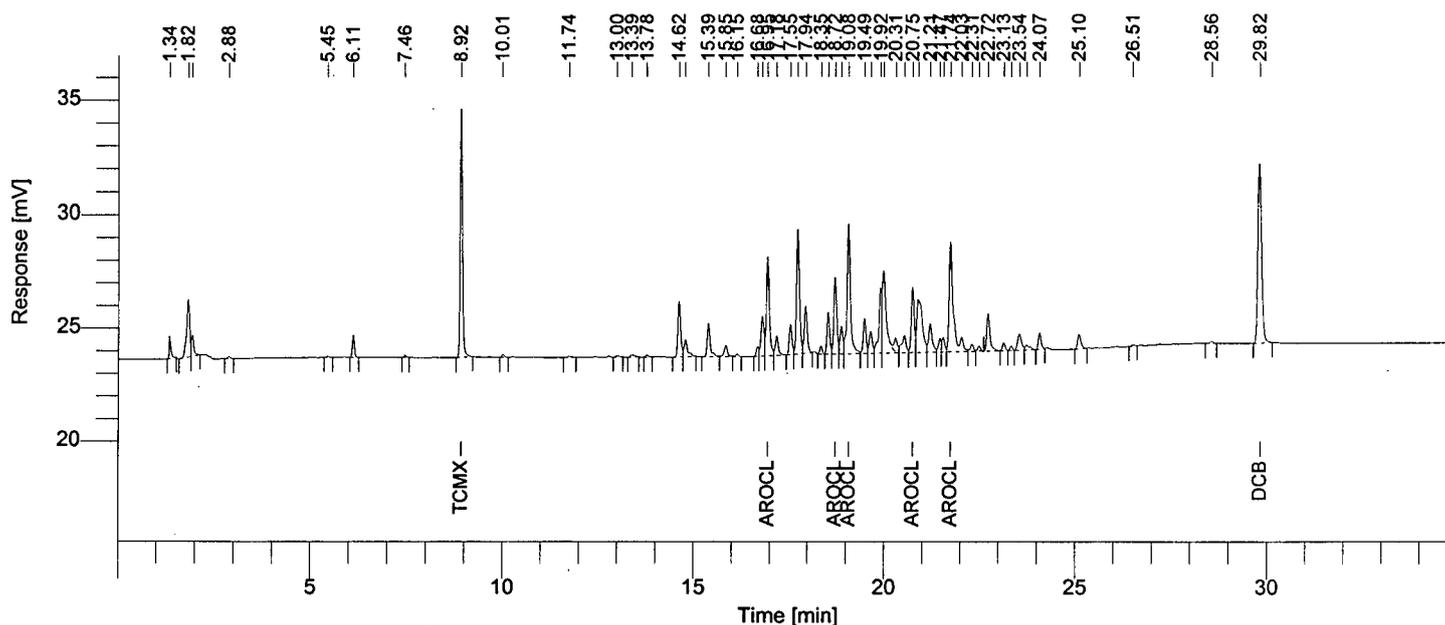
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
12	10.26	Aroclor 1016-1	10484	0.1966	0.000	----
17	12.44	Aroclor 1016-2	13969	0.2023	0.000	----
22	13.41	Aroclor 1016-3	42347	0.2004	0.000	----
23	13.77	Aroclor 1016-4	18936	0.2045	0.000	----
32	15.85	Aroclor 1016-5	14053	0.2060	0.000	----
			99790	1.0097		

Group Report For : AR1260

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
48	20.75	Aroclor 1260-1	26917	0.1891	0.000	----
52	21.74	Aroclor 1260-2	36279	0.1932	0.000	----
54	22.31	Aroclor 1260-3	19879	0.1958	0.000	----
63	24.06	Aroclor 1260-4	44327	0.2090	0.000	----
66	25.10	Aroclor 1260-5	24848	0.2017	0.000	----
			152249	0.9888		

Software Version	: 6.1.0.2:G07	Date	: 12/03/98 09:39:23 AM
Operator	: SCHMITZR	Sample Name	: AR1254 1202 M2
Sample Number	: 018	Study	: CCV
AutoSampler	: HP7673A	Rack/Vial	: 1/18
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.99 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 18
Data Acquisition Time	: 12/03/98 01:25:53 AM		

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Result File : \\gcsrv1\TCData\hp58901\DEC\12-02\hp1a_981202370r_018.rst
Inst Method : \\gcsrv1\TCData\Hp58901\hP1_rtx5 from
\\gcsrv1\TCData\hp58901\DEC\12-02\hp1a_981202370r_018.rst
Proc Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1254_1124.mth
Calib Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1254_1124.mth
Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq



GC Pcb Continuing Report

HP5890 1A RTX-5 30m 0.53mm 2ul Inj method 8081

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
8	8.92	TCMX	44778	0.0207	0.020	3.4
	19.08	AR1254	126879	0.2127	0.200	6.4
55	29.82	DCB	54054	0.0219	0.020	9.7
			225712	0.2553		

12/03/98 09:39:23 AM Result:

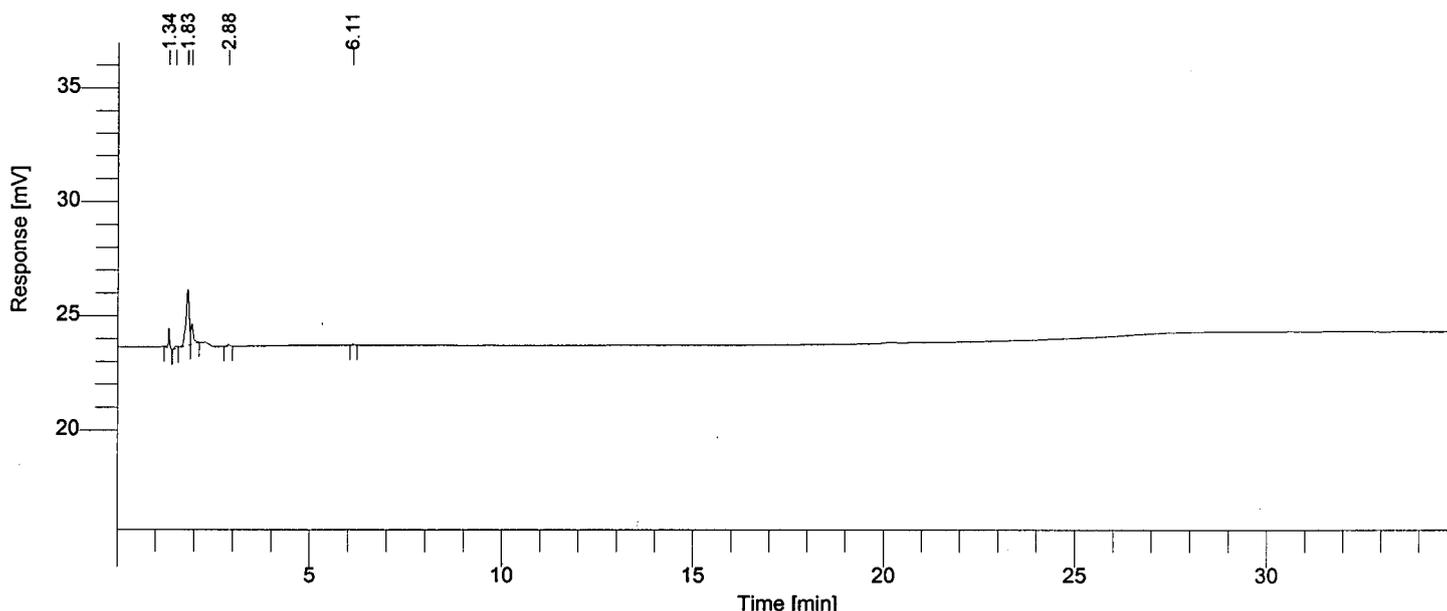
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Group Report For : AR1254

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
21	16.95	Aroclor 1254-1	24162	0.2092	0.000	----
28	18.72	Aroclor 1254-2	18104	0.2091	0.000	----
30	19.08	Aroclor 1254-3	35372	0.2112	0.000	----
37	20.75	Aroclor 1254-4	14901	0.2154	0.000	----
42	21.74	Aroclor 1254-5	34339	0.2177	0.000	----
			126879	1.0626		

Software Version	: 6.1.0.2:G07	Date	: 12/03/98 09:39:54 AM
Operator	: SCHMITZR	Sample Name	: HEXANE
Sample Number	: 023	Study	:
AutoSampler	: HP7673A	Rack/Vial	: 1/23
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.99 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 23
Data Acquisition Time	: 12/03/98 04:50:23 AM		

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Proc Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
Calib Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq



GC Pcb Report

HP5890 1A RTX-5 30m 0.53mm 2ul Inj method 8081

No peaks available to report

Group Report For : AR1016

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
-	10.26	Aroclor 1016-1	0	0.0000
-	12.44	Aroclor 1016-2	0	0.0000
-	13.41	Aroclor 1016-3	0	0.0000
-	13.77	Aroclor 1016-4	0	0.0000
-	15.85	Aroclor 1016-5	0	0.0000
			0	0.0000

12/03/98 09:39:54 AM Result:

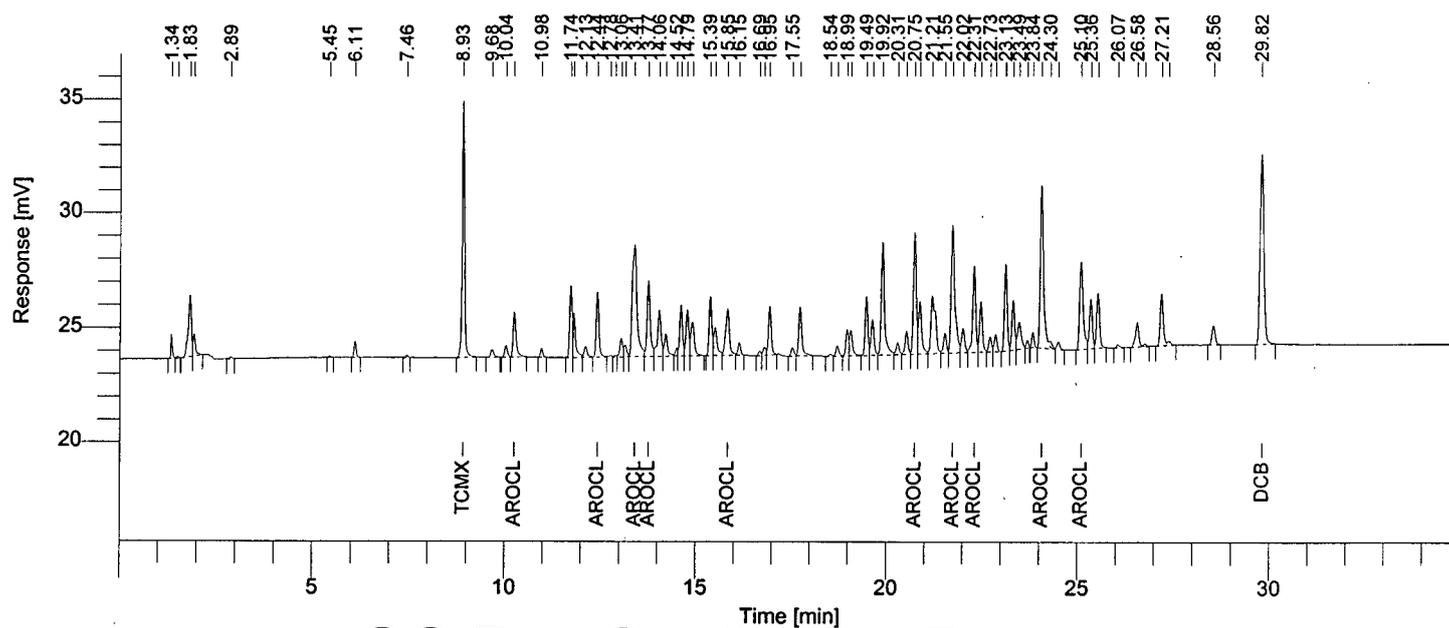
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Group Report For : AR1260

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount
-	20.75	Aroclor 1260-1	0	0.0000
-	21.74	Aroclor 1260-2	0	0.0000
-	22.31	Aroclor 1260-3	0	0.0000
-	24.06	Aroclor 1260-4	0	0.0000
-	25.10	Aroclor 1260-5	0	0.0000
			0	0.0000

Software Version	: 6.1.0.2:G07	Date	: 12/03/98 09:39:59 AM
Operator	: SCHMITZR	Sample Name	: AR1660 1202 M3
Sample Number	: 024	Study	: CCV
AutoSampler	: HP7673A	Rack/Vial	: 1/24
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.99 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 24
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\\gcsrv1\TCData\hp58901\DEC\12-02\hp1a_981202370r_024.rst
Proc Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
Calib Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq



GC Pcb Continuing Report

HP5890 1A RTX-5 30m 0.53mm 2ul Inj method 8081

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
9	8.93	TCMX	47431	0.0210	0.020	4.8
	13.41	AR1016	100098	0.2024	0.200	1.2
	24.07	AR1260	153532	0.2002	0.200	0.1
75	29.82	DCB	57184	0.0227	0.020	13.4
			358245	0.4462		

12/03/98 09:39:59 AM Result:

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Group Report For : AR1016

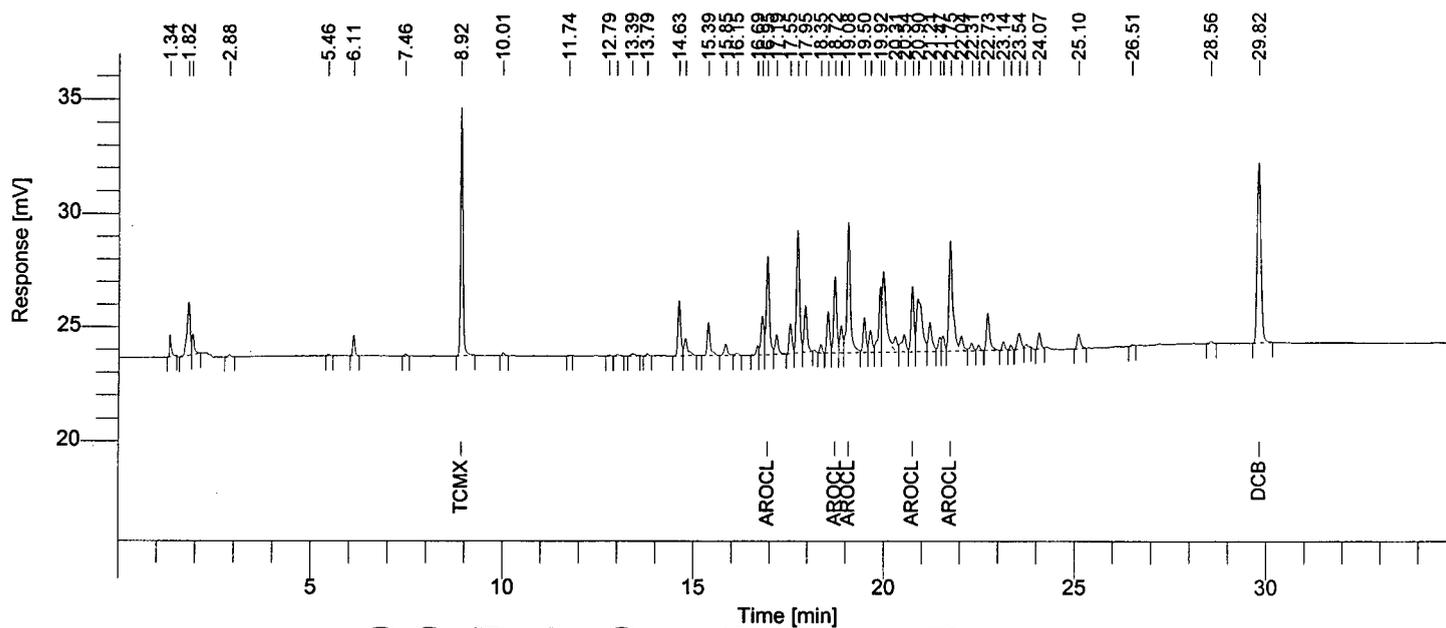
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
12	10.26	Aroclor 1016-1	10572	0.1982	0.000	----
17	12.44	Aroclor 1016-2	14005	0.2028	0.000	----
22	13.41	Aroclor 1016-3	42399	0.2006	0.000	----
23	13.77	Aroclor 1016-4	19037	0.2056	0.000	----
32	15.85	Aroclor 1016-5	14085	0.2064	0.000	----
			100098	1.0136		

Group Report For : AR1260

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
48	20.75	Aroclor 1260-1	27858	0.1958	0.000	----
52	21.74	Aroclor 1260-2	37528	0.1999	0.000	----
54	22.31	Aroclor 1260-3	20590	0.2028	0.000	----
63	24.07	Aroclor 1260-4	42508	0.2004	0.000	----
66	25.10	Aroclor 1260-5	25049	0.2033	0.000	----
			153532	1.0022		

Software Version	: 6.1.0.2:G07	Date	: 12/03/98 09:40:06 AM
Operator	: SCHMITZR	Sample Name	: AR1254 1202 M3
Sample Number	: 025	Study	: CCV
AutoSampler	: HP7673A	Rack/Vial	: 1/25
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.99 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 25
Data Acquisition Time	: 12/03/98 06:12:15 AM		

Raw Data File : \\gcsrv1\TCData\hp58901\DEC\12-02\hp1a_981202370r_025.raw
Result File : \\gcsrv1\TCData\hp58901\DEC\12-02\hp1a_981202370r_025.rst
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Proc Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1254_1124.mth
Calib Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1254_1124.mth
Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq



GC Pcb Continuing Report

HP5890 1A RTX-5 30m 0.53mm 2ul Inj method 8081

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
8	8.92	TCMX	45295	0.0209	0.020	4.6
	19.08	AR1254	128623	0.2156	0.200	7.8
56	29.82	DCB	54600	0.0222	0.020	10.8
			228518	0.2587		

12/03/98 09:40:06 AM Result:

\\gcsrv1\TCDData\hp58901\DEC\12-02\hp1a_981202370r_025.rst

Group Report For : AR1254

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Expected Amt. (ug/mL)	% Difference
22	16.95	Aroclor 1254-1	24531	0.2124	0.000	-----
29	18.72	Aroclor 1254-2	18240	0.2107	0.000	-----
31	19.08	Aroclor 1254-3	35825	0.2139	0.000	-----
38	20.75	Aroclor 1254-4	15080	0.2180	0.000	-----
43	21.75	Aroclor 1254-5	34947	0.2216	0.000	-----
			128623	1.0765		

TEST CODE :SPCB0A1

JOB NUMBER :9803.017

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : ROY F. WESTON - EDISON

RESULTS IN WET WEIGHT

TEST NAME : 8082 PCB UNITS : UG/KG

SAMPLE ID LAB : METHOD BLANK (1311-50-1) MATRIX : SOLID

DATE OF ANALYSIS: 12/02/98

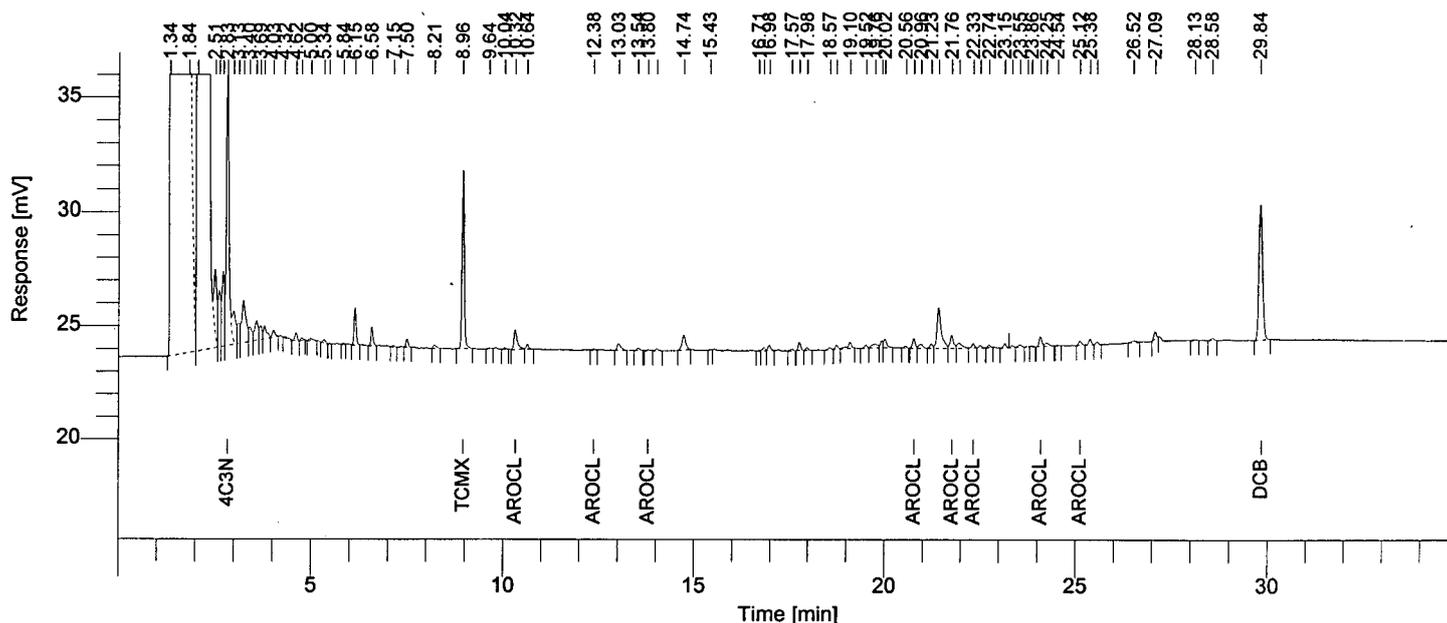
ASSOCIATED SAMPLES: 19591, 19592, 19593, 19594, 19594 MS,
19594 MSD, 19595 AND 19596

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		20
PCB-1254	ND		20
PCB-1221	ND		40
PCB-1232	ND		20
PCB-1248	ND		20
PCB-1260	ND		20
PCB-1016	ND		20

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

Software Version	: 6.1.0.2:G07	Date	: 12/03/98 09:38:05 AM
Operator	: SCHMITZR	Sample Name	: 1311-50-1
Sample Number	: 006	Study	: 9803.017
AutoSampler	: HP7673A	Rack/Vial	: 1/6
Instrument Name	: HP58901A	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 34.99 min
Sampling Rate	: 2.5000 pts/s	Area Reject	: 100.000000
Volume Injected	: 1.000000 ul	Dilution Factor	: 1.00
Sample Amount	: 1.0000	Cycle	: 6
Data Acquisition Time	: 12/02/98 05:14:29 PM		

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 Calib Method : \\gcsrv1\TCData\hp58901\methods\nov\11-24\hp1a_ar1660_1124.mth
 Sequence File : \\gcsrv1\TCData\Hp58901\DEC\12-02\HP1_1202R.seq



GC Pcb Soil Report

hp5890 1a RTX-5 30m 0.53mm 2ul Inj GC.14(8081) GC.73(8082)

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
7	2.83	4C3N	60488	0.0332	10.96	10.0	30.25
28	8.96	TCMX	31530	0.0139	4.61	10.0	30.25
	10.32	AR1016	5770	0.0117	3.86	10.0	30.25
	21.76	AR1260	9985	0.0130	4.30	10.0	30.25
78	29.84	DCB	39401	0.0156	5.17	10.0	30.25
			147174	0.0874		50.0	151.25

12/03/98 09:38:05 AM Result:

\\gcsrv1\TCData\hp58901\DEC\12-02\hp1a_981202370r_006.rst

Group Report For : AR1016

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
31	10.32	Aroclor 1016-1	5363	0.1006	33.24	10.0	30.25
33	12.38	Aroclor 1016-2	178	0.0026	0.85	10.0	30.25
-	13.41	Aroclor 1016-3	0	0.0000	0.00	10.0	30.25
36	13.80	Aroclor 1016-4	229	0.0025	0.82	10.0	30.25
-	15.85	Aroclor 1016-5	0	0.0000	0.00	10.0	30.25
			5770	0.1056		50.0	151.25

Group Report For : AR1260

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Raw Amount	Results UG/KG	Final Vol. (ml)	Amt Ext. (gr)
54	20.77	Aroclor 1260-1	2123	0.0149	4.93	10.0	30.25
58	21.76	Aroclor 1260-2	3586	0.0191	6.31	10.0	30.25
60	22.33	Aroclor 1260-3	982	0.0097	3.20	10.0	30.25
68	24.08	Aroclor 1260-4	2192	0.0103	3.42	10.0	30.25
71	25.12	Aroclor 1260-5	1102	0.0089	2.96	10.0	30.25
			9985	0.0630		50.0	151.25

CALCULATION EXAMPLES

for GC Pesticide, PCB, & Herbicide Samples:

WATERS

$$\text{Ug/Liter} = \frac{(\text{Area of Peak}) (\text{Final Volume of Extract [Milliliters]}) (\text{Dilution Factor})}{(\text{Average Calibration Factor}) (\text{Amount Extracted [Liters]})}$$

SOILS

$$\text{Ug/Kg} = \frac{(\text{Area of Peak}) (\text{Final Volume of Extract [Milliliters]}) (\text{Dilution Factor})}{(\text{Average Calibration Factor}) (\text{Amount Extracted [Grams]} / 1000) (\% \text{ dry}/100)}$$

$$\text{Ug/G} = \frac{(\text{Area of Peak}) (\text{Final Volume of Extract [Milliliters]}) (\text{Dilution Factor})}{(\text{Average Calibration Factor}) (\text{Amount Extracted [Grams]}) (\% \text{ dry}/100)}$$

WIPES

$$\text{Ug/Wipe} = \frac{(\text{Area of Peak}) (\text{Final Volume of Extract [Milliliters]}) (\text{Dilution Factor})}{(\text{Average Calibration Factor}) (1\text{-Wipe})}$$

$$\text{Ug/cm}^2 = \frac{(\text{Area of Peak}) (\text{Final Volume of Extract [Milliliters]}) (\text{Dilution Factor})}{(\text{Average Calibration Factor}) (\text{Wiped Area [Square Centimeters]})}$$

TCLP

$$\text{Mg/Liter} = \frac{(\text{Area of Peak}) (\text{Final Volume of Extract [Milliliters]}) (\text{Dilution Factor})}{(\text{Average Calibration Factor}) (\text{Amount Extracted [Milliliters]})}$$

(NOTES:

1) For Multicomponent Compounds:

Area = Total Area of all peaks used.

Average Calibration Factor = Average Calibration Factor of all peaks used.

2) For Herbicides:

Final values for individual components are multiplied by each of their specific derivatization factors. (See method for table of values.)